BODY AND TRIM

SECTION BT

CONTENTS

★ **For seat belt, refer to MA and RS sections.**
★ **For body electrical systems, refer to EL section.**

Precautions

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc carefully during removing or installation. Be careful not to soil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

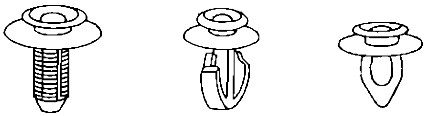
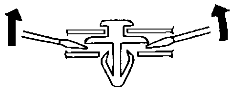
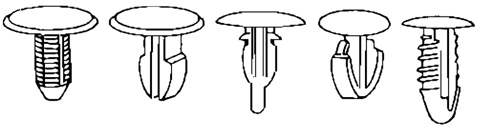
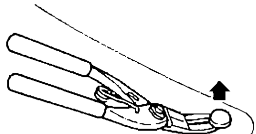
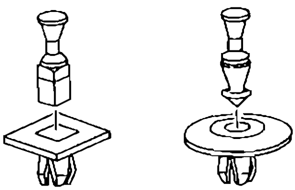
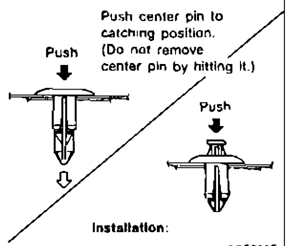
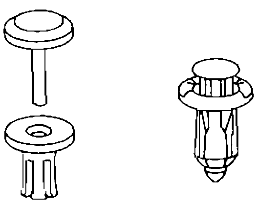
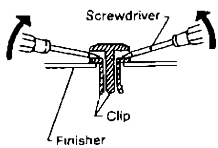
The Supplemental Restraint System "Air Bag" and "Seat Belt Pre-tensioner", used along with a seat belt, help to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable. Information necessary to service the system safely is included in the **RS section** of this Service Manual.

WARNING:

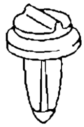
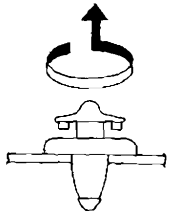
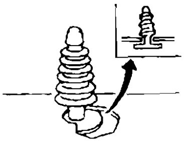
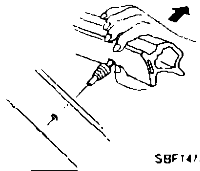
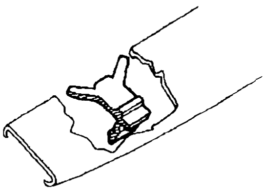
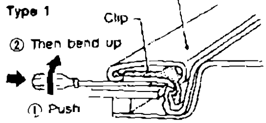
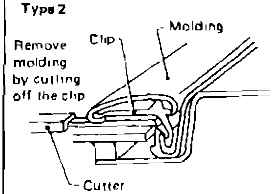
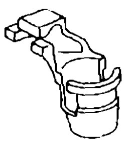
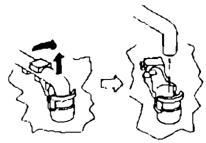
- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.**
- **All SRS air bag electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS.**

Clip and Fastener

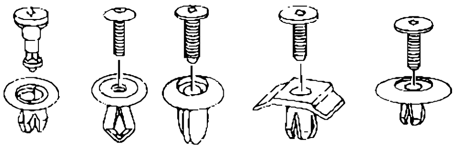
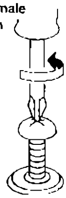
- Clips and fasteners in BT section correspond to the following numbers and symbols
- Replace any clips and/or fasteners which are damaged during removal or installation

Symbol No	Shapes	Removal & Installation
C101 	 SBF302H	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover  SBF367BA
C103 	 SBF303H	 **Removal:** Remove with a clip remover. SBF423H
C203 	 SBF258G	 SBF708E
C205 	 MBF518B	**Removal:**  SBF638C

Clip and Fastener (Cont'd)

Symbol No.	Shapes	Removal & Installation
C206 	 MBF519B	 MBF520B
CE103 	 SBF104B	**Removal:**  SBF147B
CE106	 SBF653B	**Removal:** **Type 1**  SBF654B **Type 2**  SBF914B
CR103	 SBF768B	**Removal:** Holder portion of clip must be spread out to remove rod  SBF770B

Clip and Fastener (Cont'd)

Symbol No	Shapes	Removal & Installation
CS101 	 SBF078B	**Removal:** 1. Screw out with a Phillips screwdriver. 2 Remove female portion with flat-bladed screwdriver  SBF992G

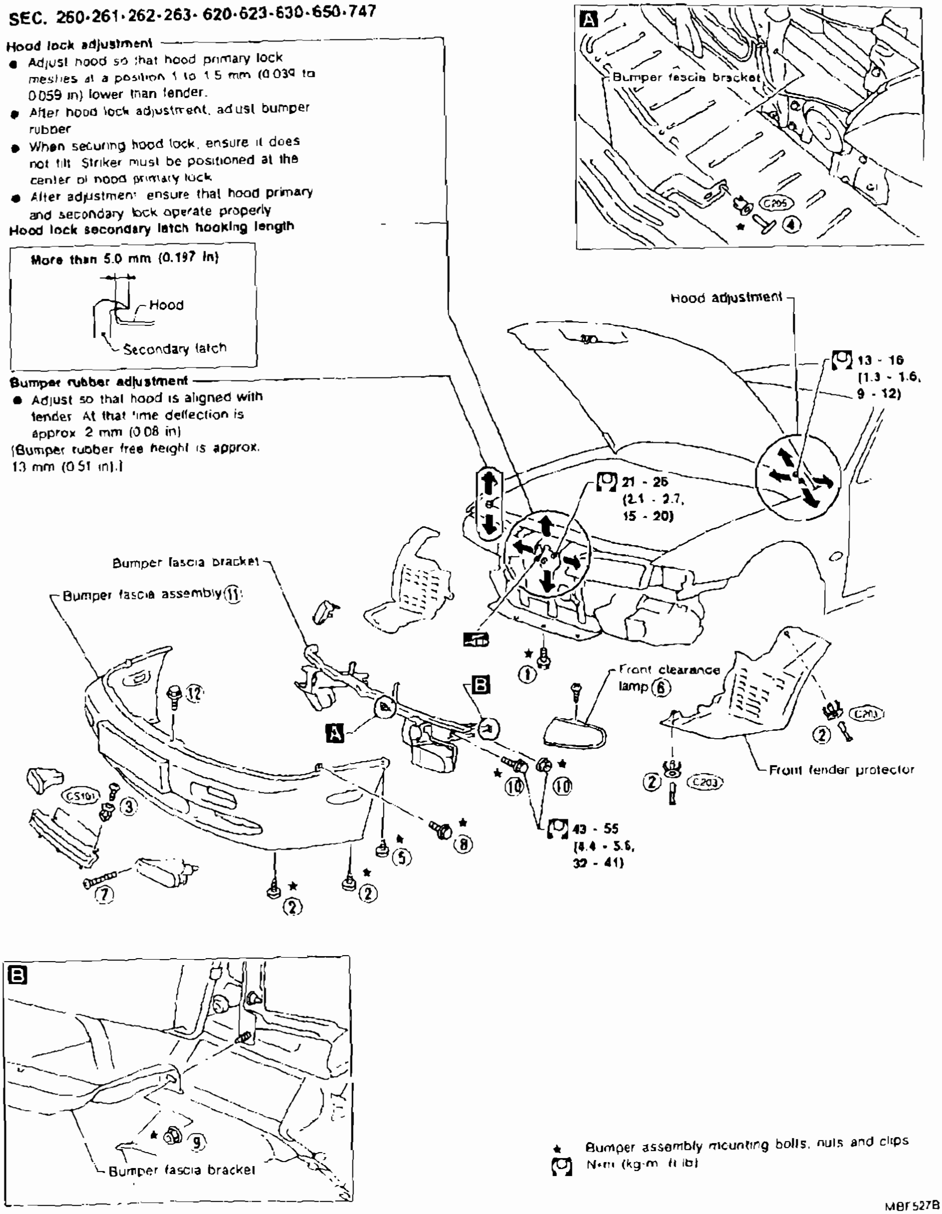
Body Front End

- When removing or installing hood, place a cloth or other padding on hood. This prevents vehicle body from being scratched
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Hood adjustment: Adjust at hinge portion.
- Hood lock adjustment: After adjusting, check hood lock control operation Apply a coat of grease to hood locks engaging mechanism.
- Hood opener: Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood.

REMOVAL — Front bumper assembly

① Remove bolts securing bumper fascia to engine undercover.
② Remove screws and clips (C203) securing left and right sides of front fender protector Then remove the front fender protector.
③ Remove clips (CS101) securing front grille, then remove the front grille.
④ Remove clip (C205) securing bumper fascia bracket to hood lock stay **A**
⑤ Remove screws located at wheel opening.
⑥ Remove the screw securing each side of front clearance lamp assembly, then remove the front clearance lamp assembly.
⑦ Remove the screw securing each side of front turn signal lamp assembly. Then remove the front turn signal lamp assembly.
⑧ Remove bolts securing each side of front fender bracket.
⑨ Remove nuts securing left and right front fenders to bumper fascia bracket **B** .
⑩ Remove nuts and bolts securing bumper assembly to front side member.
⑪ Extract bumper assembly.
⑫ Remove bolts securing bumper fascia bracket to bumper fascia.
⑬ Disassemble bumper fascia and bumper fascia bracket

Body Front End (Cont'd)

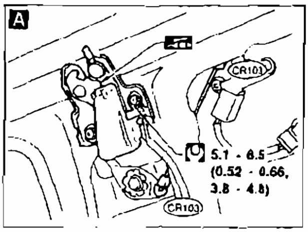


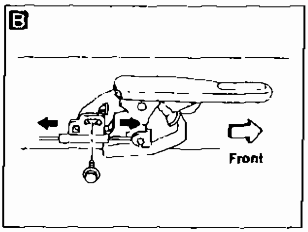
Body Rear End and Opener

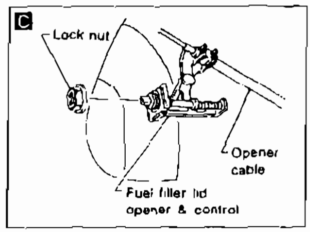
- When removing or installing trunk lid, place a cloth or other padding on trunk lid. This prevents vehicle body from being scratched
- Trunk lid adjustment: Adjust at hinge-trunk lid portion for proper trunk lid fit.
- Trunk lid lock system adjustment: Adjust striker so that it is in the center of the lock After adjustment, check trunk lid lock operation.
- Opener cable: do not attempt to bend cable using excessive force
- After installation, make sure that trunk lid and fuel filler lid open smoothly.

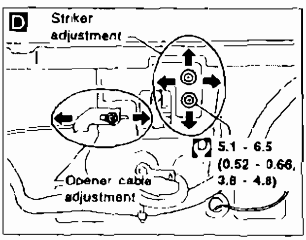
REMOVAL — Rear bumper assembly

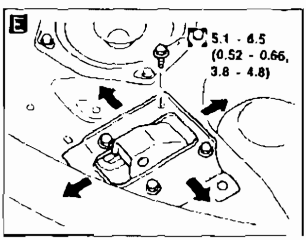
① Remove trunk trim. Refer to "TRUNK ROOM TRIM" in "INTERIOR TRIM" for details. (BT-21)
② Remove clips (CS101) securing rear panel upper to bumper fascia.
③ Remove clips (CS101) securing rear panel lower to bumper fascia.
④ Remove bolts from lower side of each side bumper
⑤ Working inside trunk, remove nuts securing left and right rear fenders to bumper fascia **G**
⑥ Extract bumper assembly **H** .

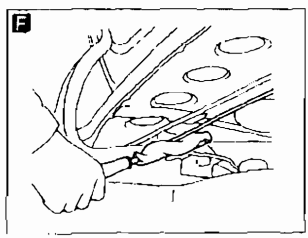


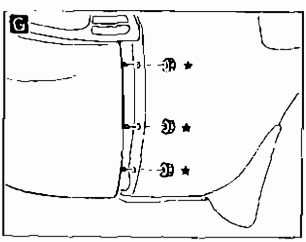


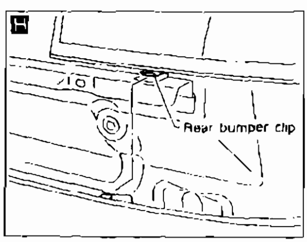








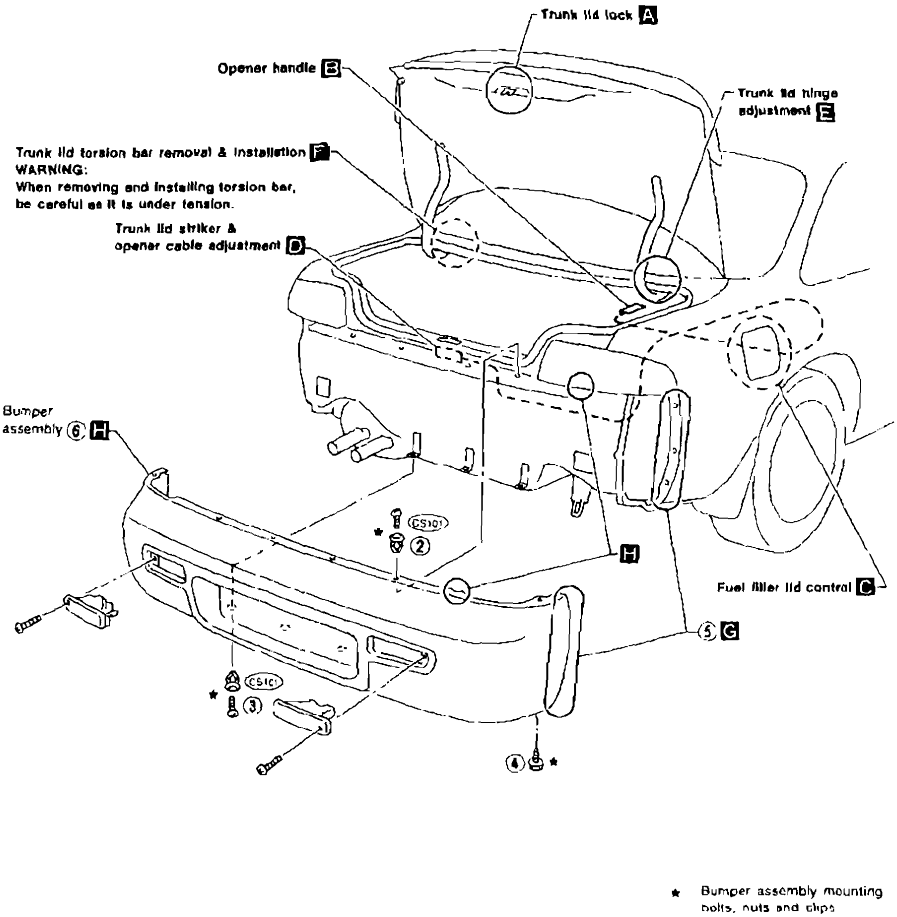




N·m (kg-m, ft-lb)

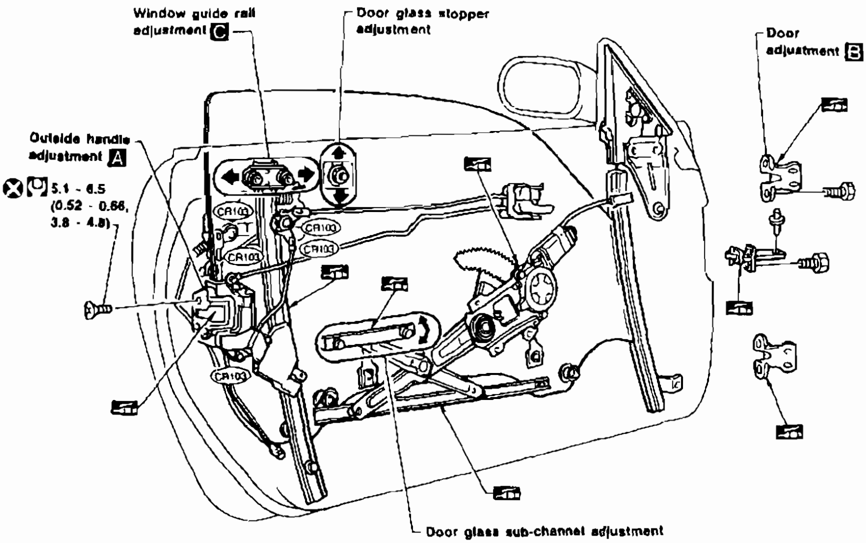
Body Rear End and Opener (Cont'd)

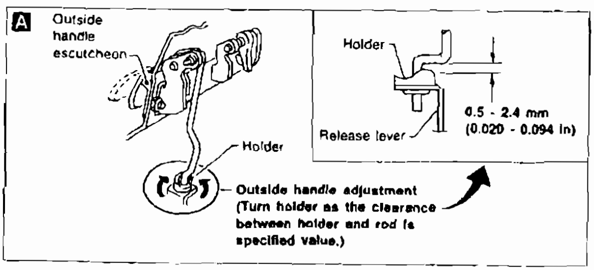
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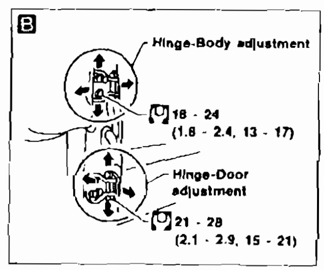


- For removal of door trim, refer to "DOOR TRIM" in "INTERIOR TRIM" for details (BT-19).
- After adjusting door or door lock, check door lock operation.

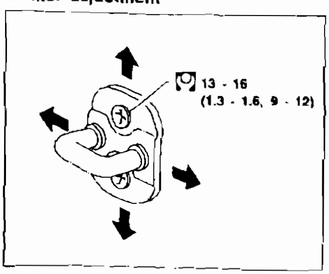
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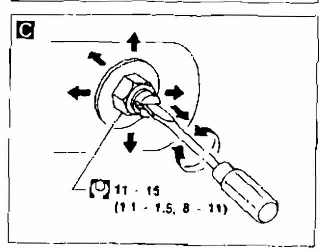






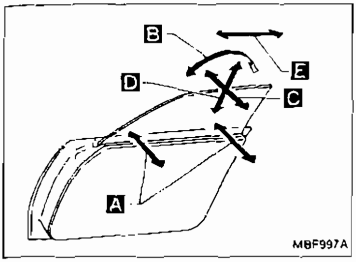
Striker adjustment





N·m (kg-m, ft-lb)

MBT042A



Door Glass Fitting Adjustment

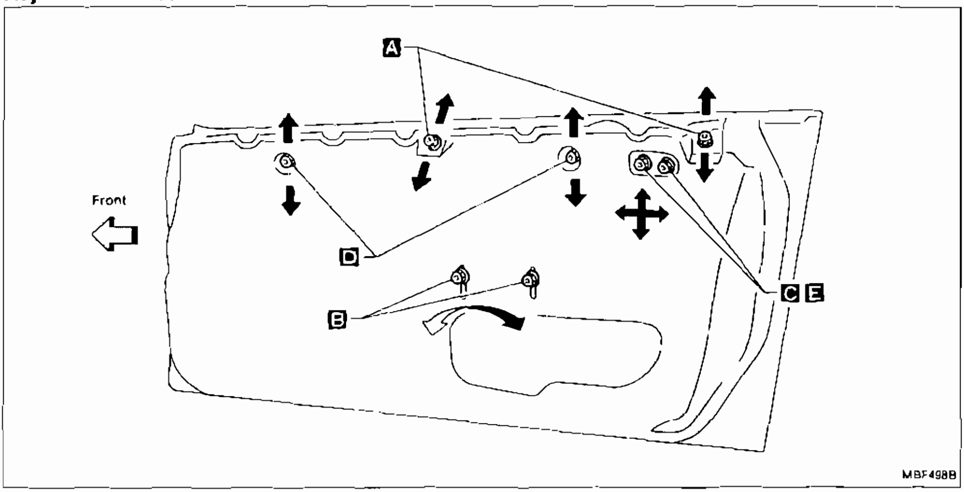
The door glass is properly adjusted using the following five methods:

- **A** In-out adjustment (at the glass waist)
- **B** Fore-aft tilt adjustment
- **C** In-out tilt adjustment (at the glass upper stop)
- **D** Up-stop adjustment
- **E** Fore-aft adjustment

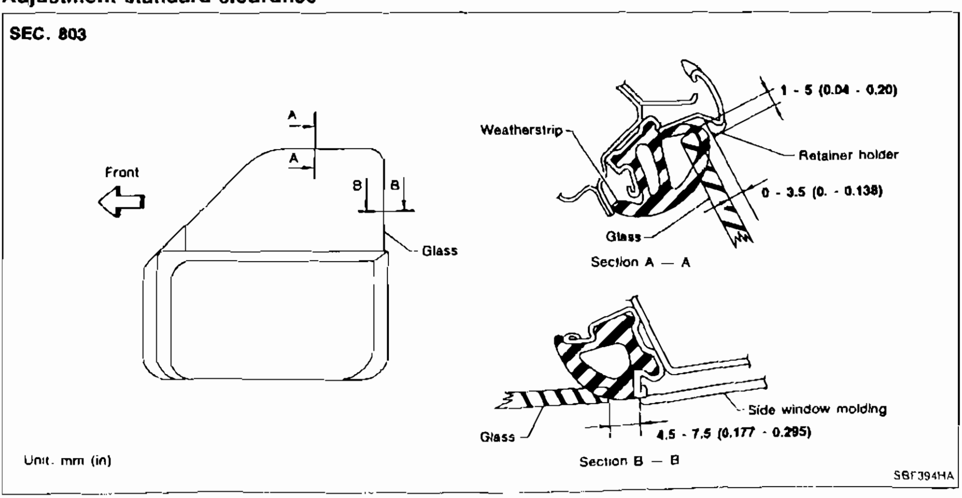
NOTICE:

When adjusting the door glass, it is not necessary to remove the outside door molding.

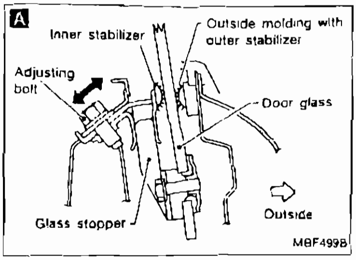
Adjustment locations



Adjustment standard clearance



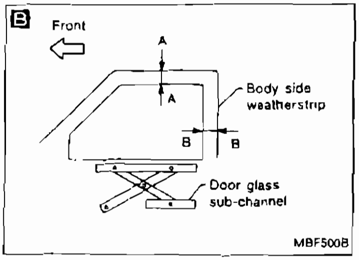
Door Glass Fitting Adjustment (Cont'd)



A IN-OUT ADJUSTMENT (at the glass waist)

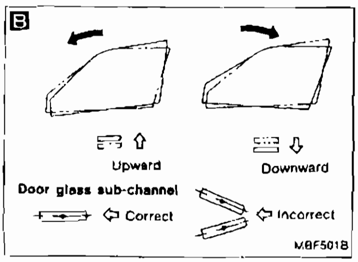
1. Raise door glass until glass stopper is in contact with inner stabilizer, just before the window stops.
2. Loosen adjusting bolts
3. Lightly press door glass upper end outward so that glass outer surface contacts outer stabilizer. With glass held in that position, press inner stabilizer to glass inner surface and tighten adjusting bolt.

CAUTION:
Make sure nap portions of stabilizers are clean and free from oil, grease, etc.



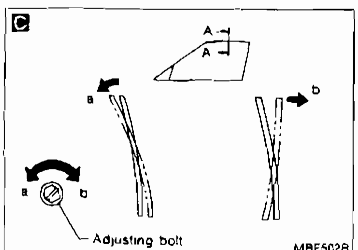
B FORE-AFT TILT ADJUSTMENT

- Adjust door glass sub-channel so that the adjustment standard clearances A – A and B – B (Refer to BT-11) are obtained at the glass and retainer holder/body side weatherstrip locations.



- For sub-channel adjustment procedures, refer to figure at left as a guide

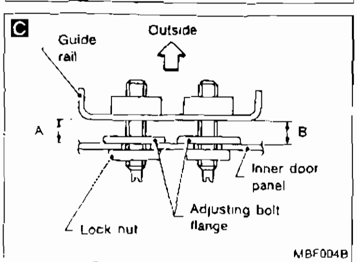
CAUTION:
- **Make sure door glass sub-channel is horizontal.**
- **The fore-aft tilt adjustment must be made at the same time the fore-aft adjustment E is made.**



C IN-OUT TILT ADJUSTMENT (at glass upper stop)

1. Adjust door glass-to-holder clearance to 0 to 3.5 mm (0 to 0.138 in) (A) with the adjusting bolts.

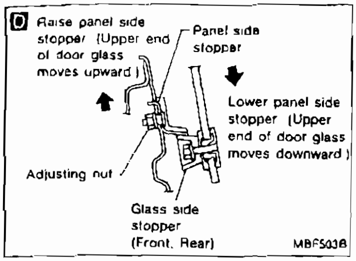
CAUTION:
- **Turn adjusting bolt clockwise to move door glass upper end outward.**
- **Turn adjusting bolt counterclockwise to move door glass upper end inward.**



- For sub-channel adjustment procedures, refer to figure at left as a guide

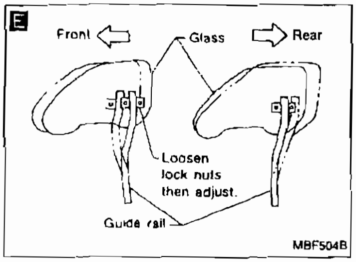
CAUTION:
- **Make sure door glass sub-channel is horizontal.**
- **The fore-aft tilt adjustment must be made at the same time the fore-aft adjustment E is made.**

Door Glass Fitting Adjustment (Cont'd)



D UP-STOP ADJUSTMENT

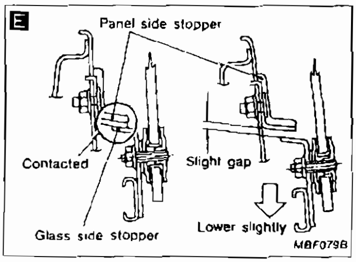
1. Adjust panel stopper height so that clearance at upper edge of door meets the adjustment standard clearance A – A (Refer to BT-11). Make sure front and rear glass stoppers lightly contact front and rear panel stoppers, then tighten adjusting nuts.
2. If stoppers do not contact each other, adjust sub-channel nut. Refer to "B Fore-aft tilt adjustment".
3. Open and close doors to make sure upper end of door glass does not contact holder.



E FORE-AFT ADJUSTMENT

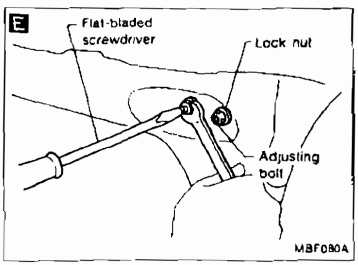
1. Adjust guide rail in the fore-aft direction so that when door is closed or opened the clearance between upper edge of door glass and holder conforms to the adjustment standard clearance A – A (Refer to BT-11).
2. If outer perimeter of door glass interferes with holder when door is opened or closed, refer to "B Fore-aft tilt adjustment" for procedures.

CAUTION:
When loosening guide rail lock nut, prevent adjusting bolt from turning by holding it with a standard screwdriver.



3. Lower the glass slightly until the glass side stopper comes off the panel side stopper.

CAUTION:
Do not lower the glass excessively.



- **After completing door glass adjustment, retighten all lock nuts.**

CAUTION:
While tightening lock nuts, hold adjusting bolts using a standard screwdriver to prevent them from turning.

GI MA EM LC EC FE CL MT AT PD FA RA BR ST RS BT HA EL IDX

CAUTION:

- **Disconnect ground terminal from battery in advance.**
- **Disconnect air bag system line in advance.**
- **Never tamper with or force air bag lid open, as this may adversely affect air bag performance.**
- **Be careful not to scratch pad and other parts.**

REMOVAL — Instrument panel assembly

Instrument panel assembly | Combination meter | Audio & A/C control | Glove box

Remove air bag module (driver) and steering wheel. Refer to "SUPPLEMENTAL RESTRAINT SYSTEM" in RS section for details.

① Steering column cover and combination switch
- Remove screws

② A/T finisher or M/T shift lever boots — A

③ Instrument lower cover on driver side — B
- Remove screws

④ Instrument lower reinforcement
- Remove bolts

⑤ Cluster lid A — C
- Remove screws then disconnect harness connectors

⑥ Combination meter
- Remove screws then disconnect harness connectors

⑦ Center ventilation assembly — D
- Pull out with a flat-bladed screwdriver.

⑧ Cluster lid C and audio — E
- Remove screws

⑨ A/C or heater control
- Remove screws

⑩ Glove box assembly
- Remove screws

⑪ Console box — F
- Remove screws then disconnect harness connectors

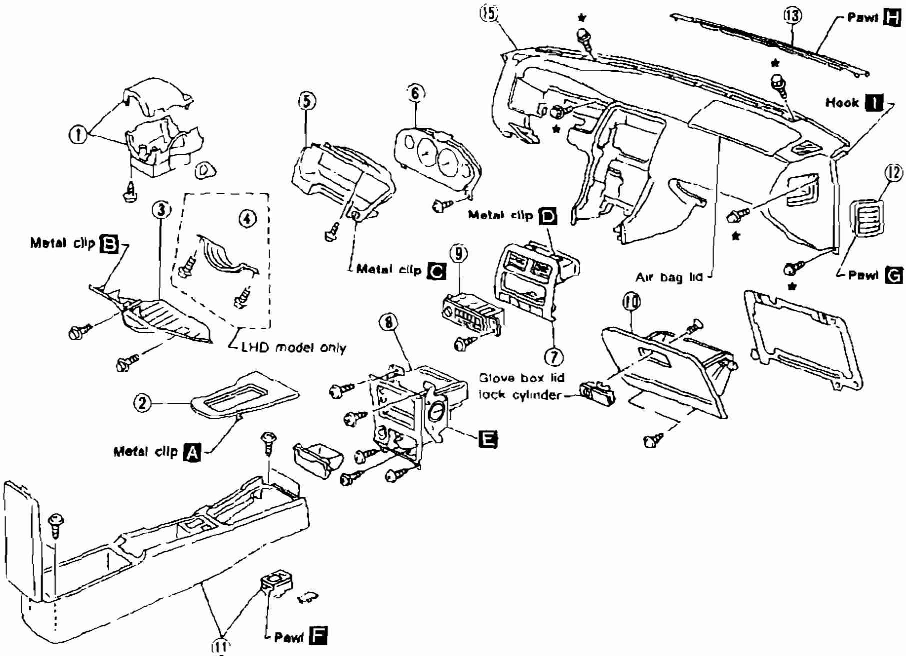
⑫ Instrument side finisher — G

⑬ Defroster grille — H

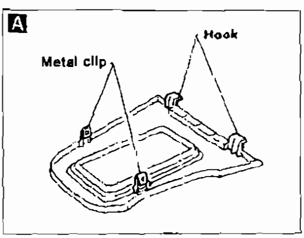
⑭ Front pillar garnish
- Refer to "SIDE AND FLOOR TRIM" for details

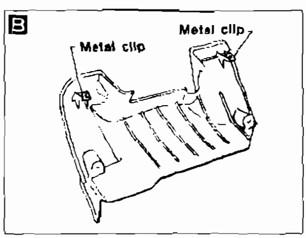
⑮ Instrument panel and pads — I
- Remove bolts

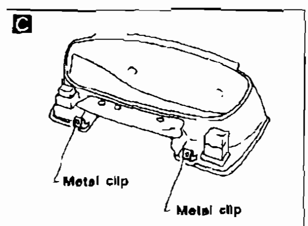
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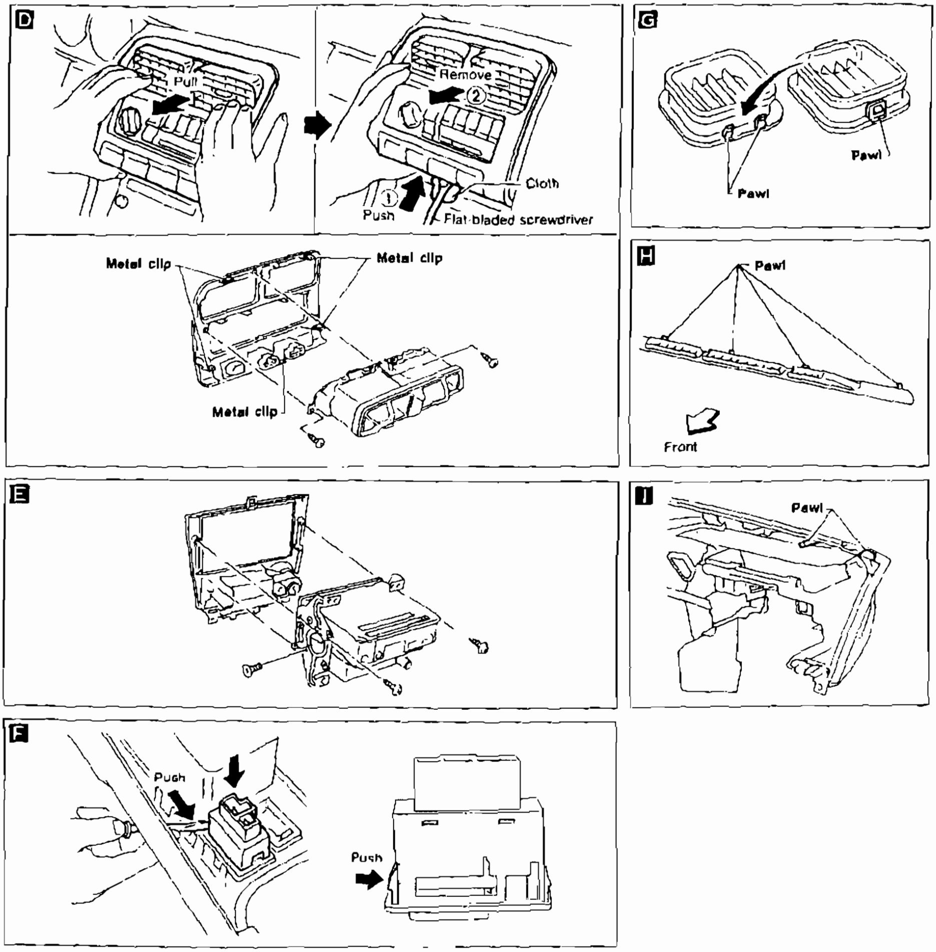


★ Instrument panel assembly mounting bolts and nuts








D
Pull
Remove
②
①
Push
Cloth
Flat-bladed screwdriver
Metal clip
Metal clip
Metal clip
G
Pawl
Pawl
H
Pawl
Front
E
I
Pawl
F
Push
Push

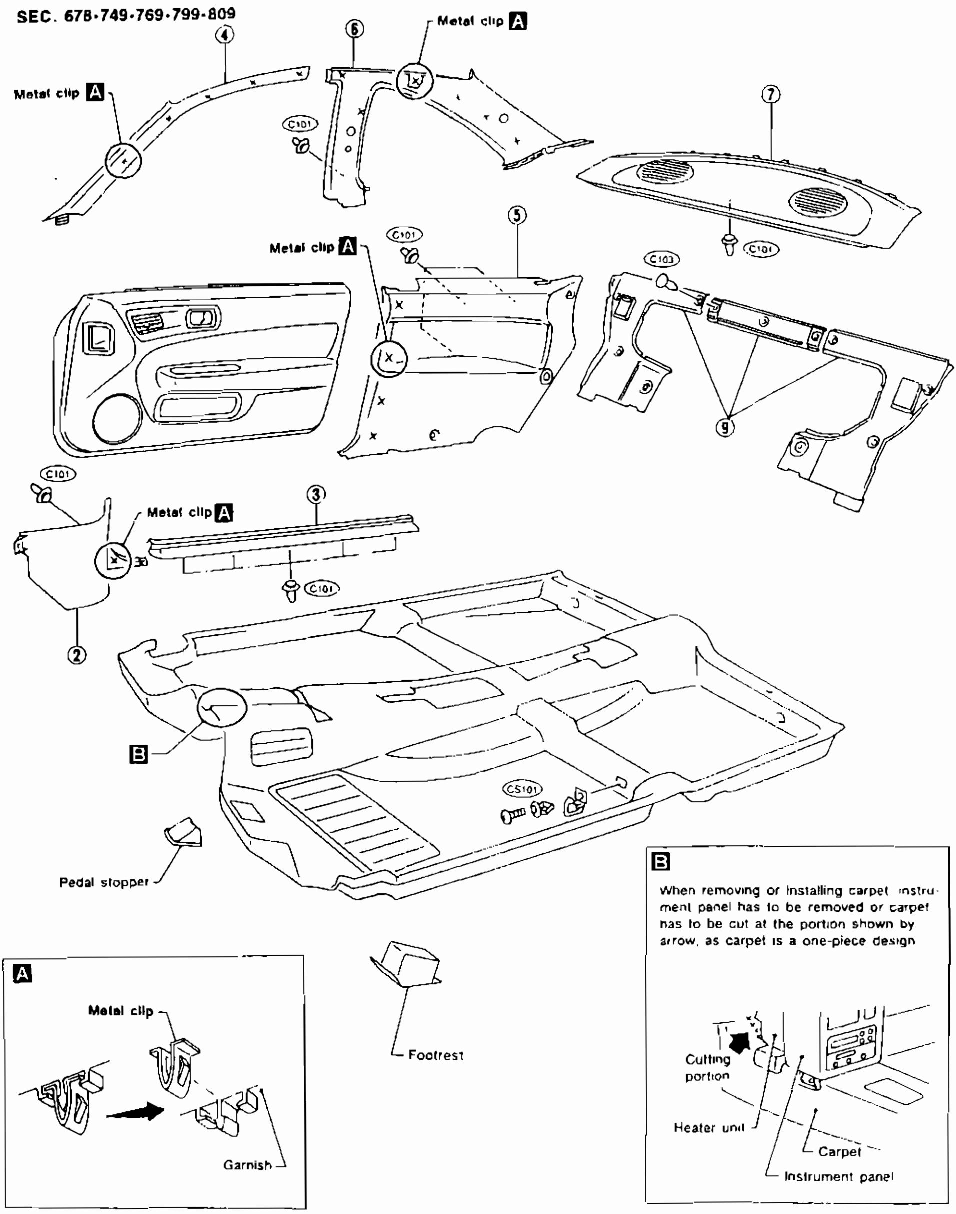
MBF529B

SIDE AND FLOOR TRIM

CAUTION:
Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.

REMOVAL — Body side trim

① Remove front and rear seat. Refer to "SEAT" for details (BT-27).
② Remove dash side finisher.
③ Remove kicking plate.
④ Remove front pillar garnish.
⑤ Remove rear side finisher.
⑥ Remove rear pillar finisher.
⑦ Remove rear parcel shelf.
⑧ Remove seat back finisher welt. Refer to "TRUNK ROOM TRIM" for details (BT-21).
⑨ Remove seat back finishers (Right, Center, Left).


SEC. 678·749·769·799·809
Metal clip A
C101
C103
CS101
B
Pedal stopper
Footrest
A
Metal clip
Garnish
B
When removing or installing carpet instrument panel has to be removed or carpet has to be cut at the portion shown by arrow, as carpet is a one-piece design.
Cutting portion
Heater unit
Carpet
Instrument panel

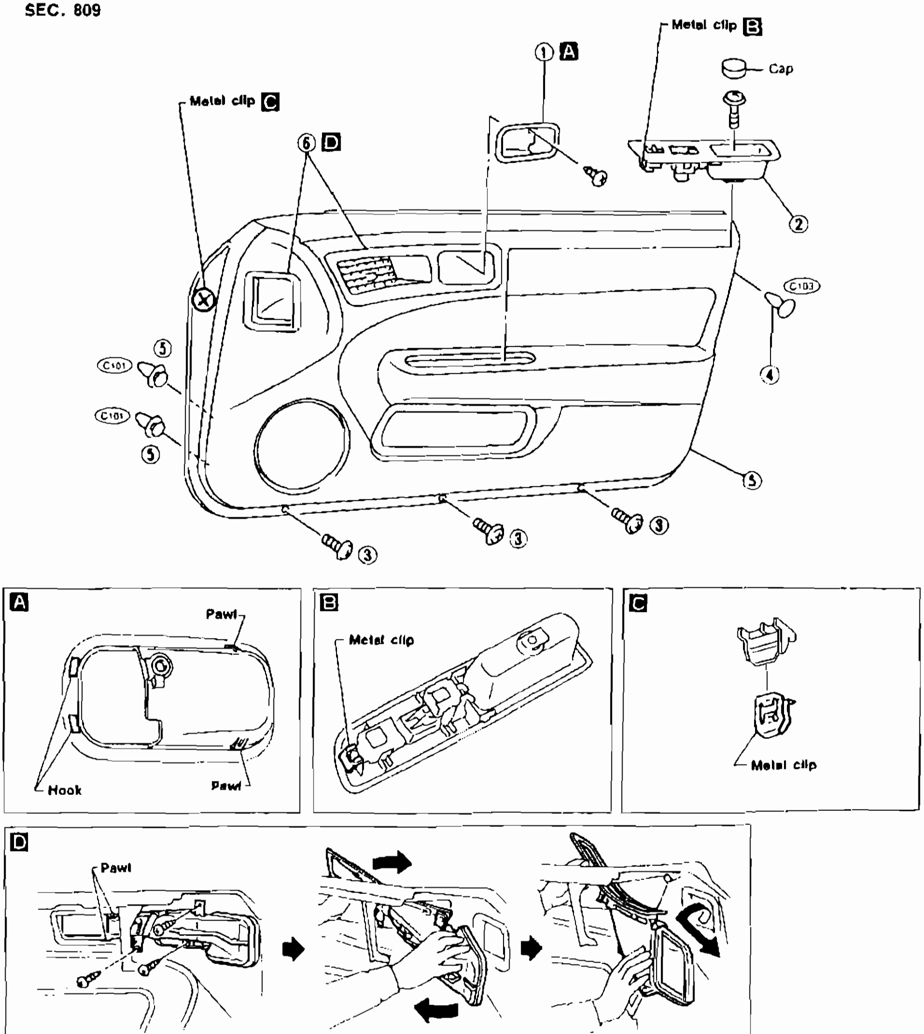
MBF445BA

DOOR TRIM

REMOVAL — Door trim

① Remove screws securing inside handle escutcheon, then remove the inside handle escutcheon **A**.
② Remove power window switch **B**.
③ Remove screws securing door finisher
④ Remove clips (C103) securing door finisher.
⑤ Pull door finisher to remove clips (C101) and metal clips **C** from door panel and remove door finisher. Disconnect harness connectors.
⑥ Remove ventilator grille and ventilator duct assembly from door finisher **D**.

SEC. 809



MBF447BA

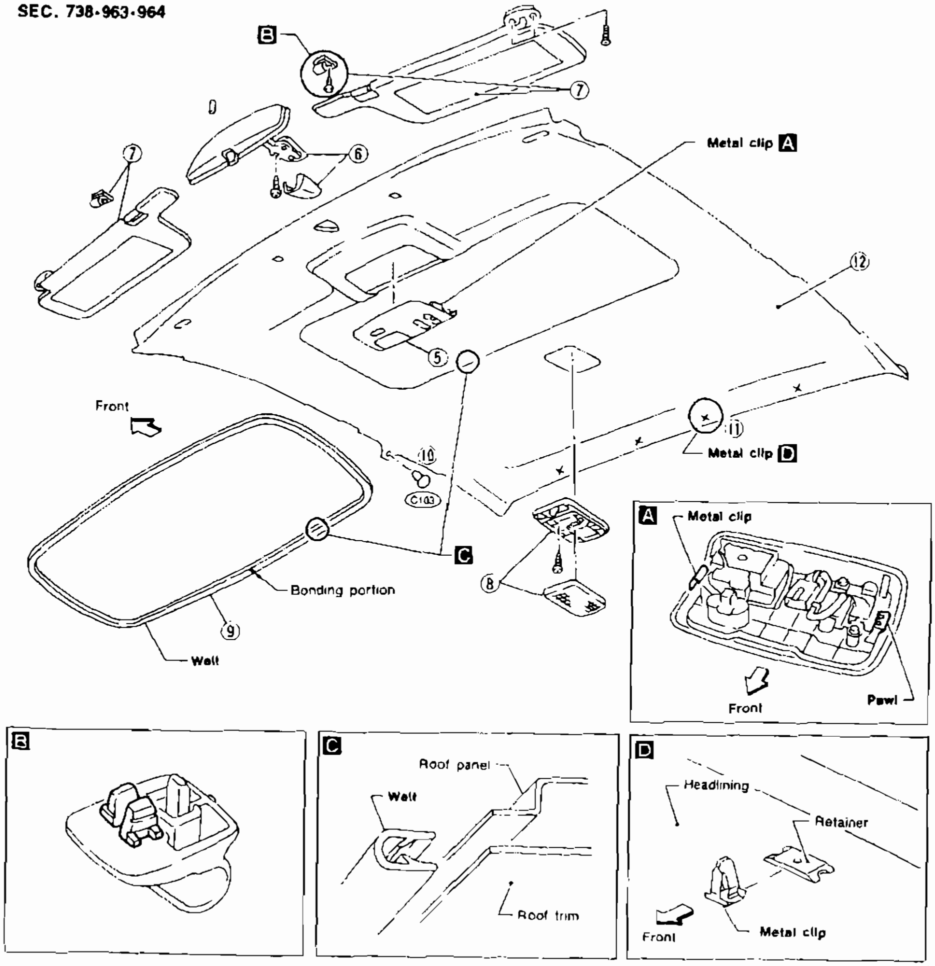
GI MA EM LC EC FE CL MT AT FA RA BR ST RS BT HA EL IDX

ROOF TRIM

REMOVAL — Headlining

① Remove rear seat. Refer to "Rear Seat" for details (BT-30).
② Remove seat belt adjuster cover over anchor bolt
③ Remove front and rear seat belts. Refer to "Seat Belt" in RS section for details.
④ Remove body side trim. Refer to "SIDE AND FLOOR TRIM" for details (BT-17).
⑤ Remove sunroof switch **A**.
⑥ Remove inside mirror assembly.
⑦ Remove sun visors **B**.
⑧ Remove interior lamp assembly.
⑨ Remove sunroof welt **C**
⑩ Remove clips (C103) securing each side of headlining.
⑪ Remove metal clips securing headlining **D**
⑫ Remove headlining.

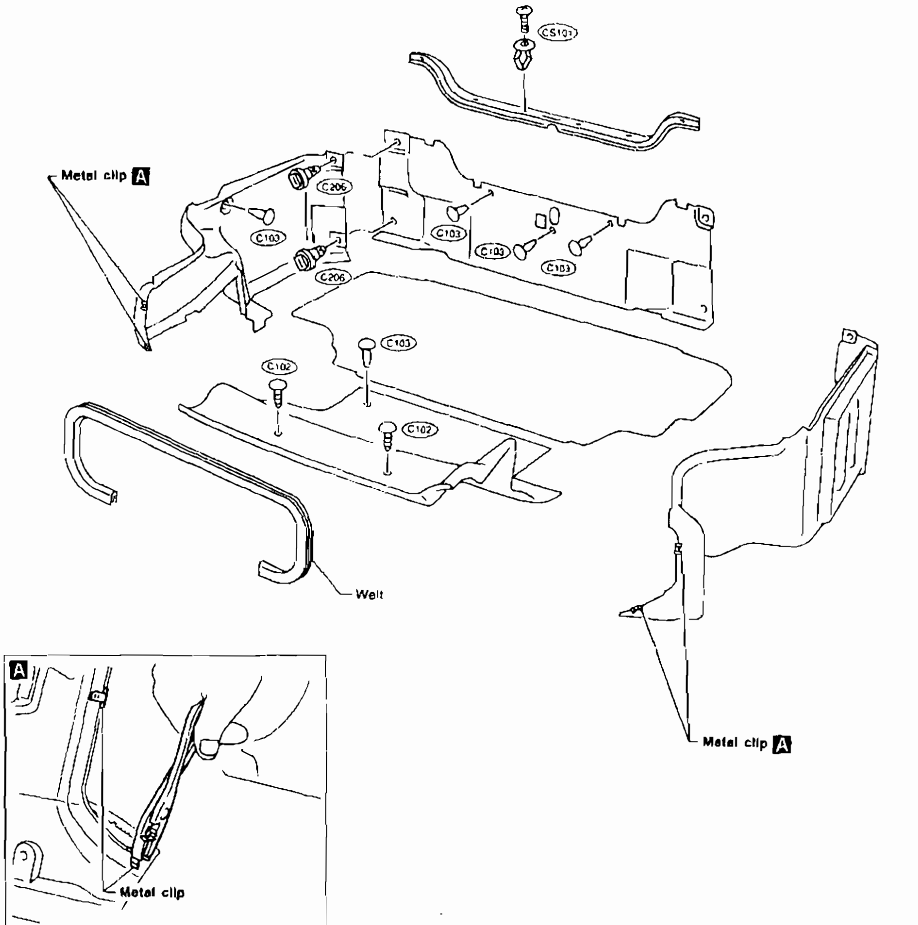
SEC. 738·963·964

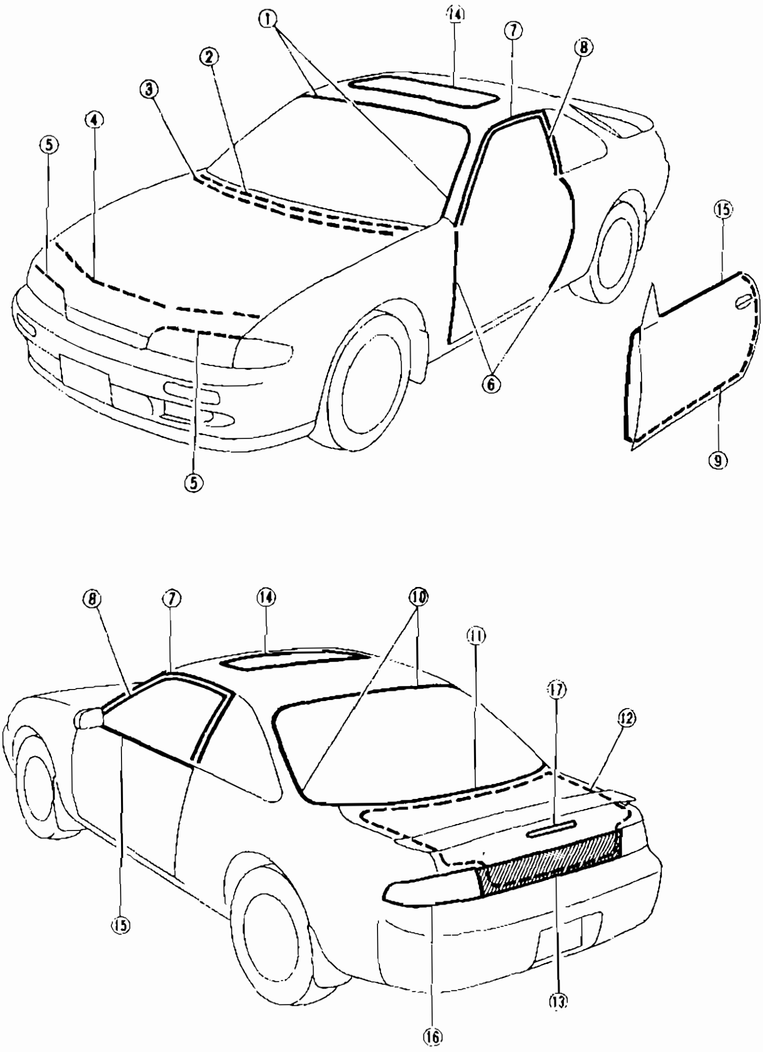


MBF446BA

TRUNK ROOM TRIM

SEC 799·849

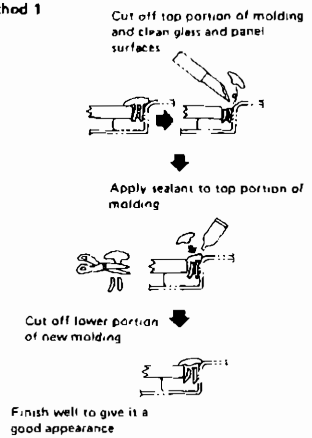




MBF449B

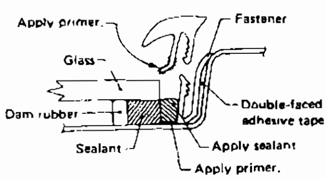
① Windshield upper and side molding

Method 1



Method 2

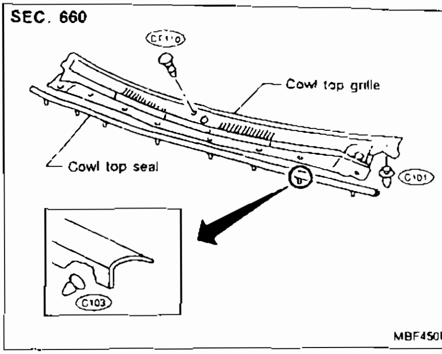
1. Cut off sealant at glass end.
2. Clean the side on which panel was mounted.
3. Set molding fastener and apply sealant to body panel, and apply primer to molding and body.



4. Install molding by aligning the molding mark located on center with vehicle center. Be sure to install tightly so that there is no gap around the corner.

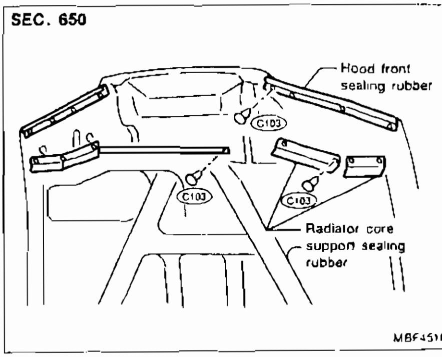
SBF161F

②, ③ Cowl top grille and hood rear sealing rubber



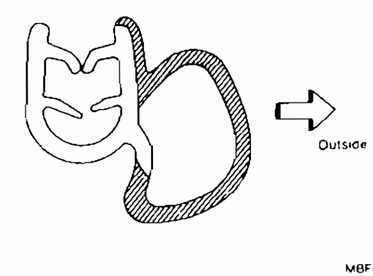
MBF450B

④, ⑤ Hood front sealing rubber



MBF451B

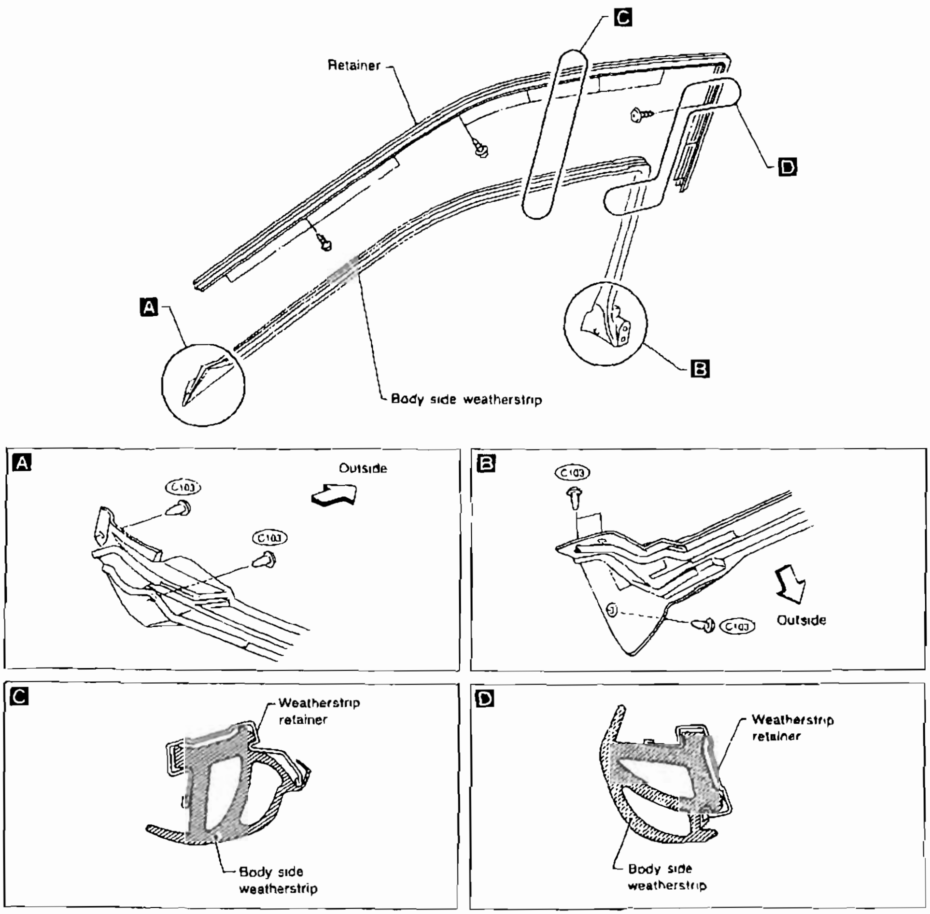
⑥ Body side welt



MBF452B

⑦, ⑧ Body side weatherstrip and weatherstrip retainer

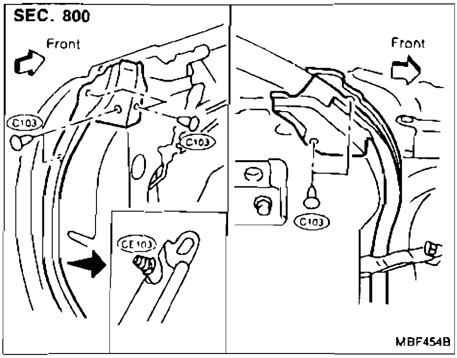
SEC. 766



MBF453BA

⑨ Door weatherstrip

Before removing door weatherstrip, remove door trim. Refer to "DOOR TRIM" for details (BT-19).



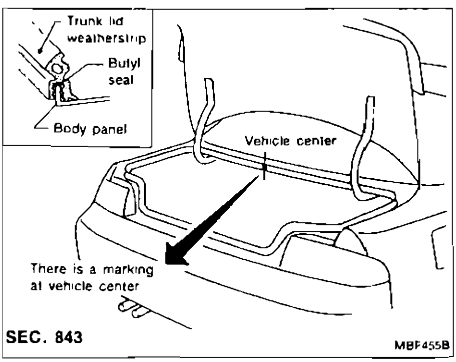
⑩ Back window upper and side molding (SEC. 797)

Basically the same as windshield upper and side molding.

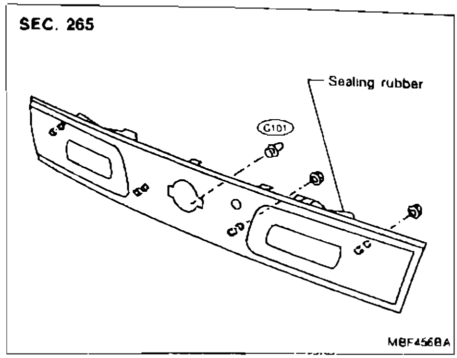
⑪ Back window lower molding (SEC. 797)

It is mounted with screws.

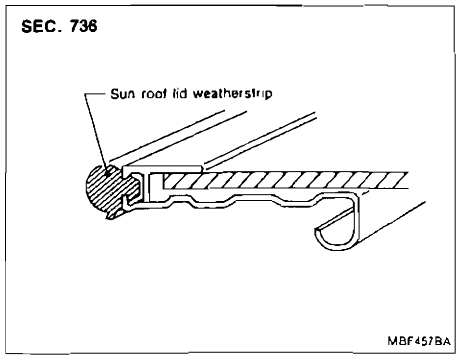
⑫ Trunk lid weatherstrip



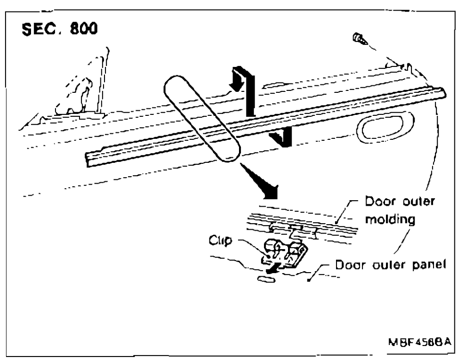
⑬ Rear panel finisher



⑭ Sun roof lid weatherstrip

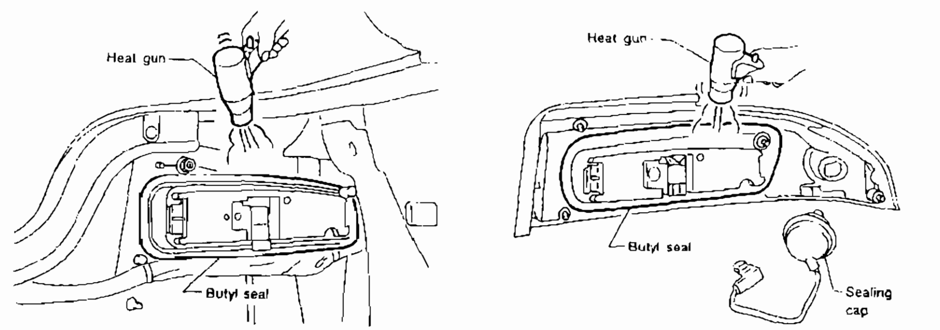


⑮ Door waist outside molding



⑯ Rear combination lamp

SEC. 265



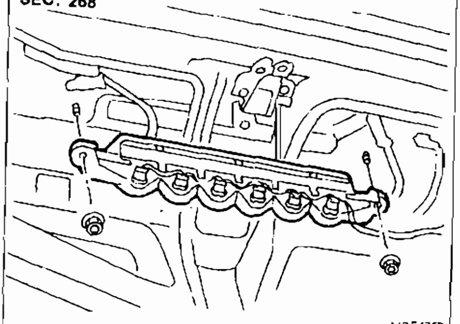
- Warm up lamp assembly area to a temperature a little below 60°C (140°F).

- Apply butyl seal evenly as it tends to become thin in the corners.
- Warm up lamp assembly area to a temperature a little below 60°C (140°F).

MBF459B

⑰ High-mounted stop lamp

SEC. 268

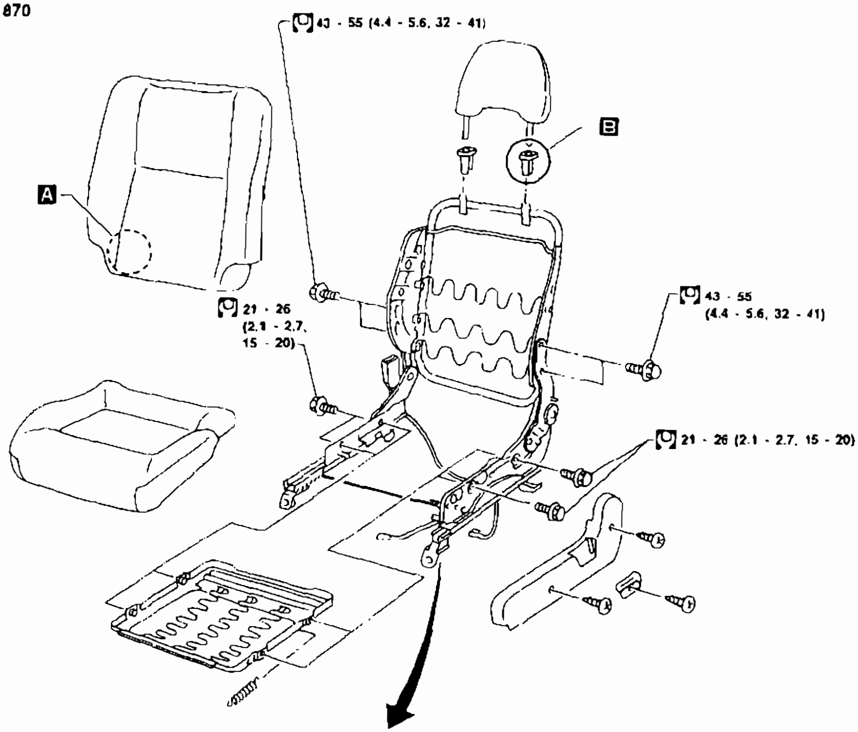


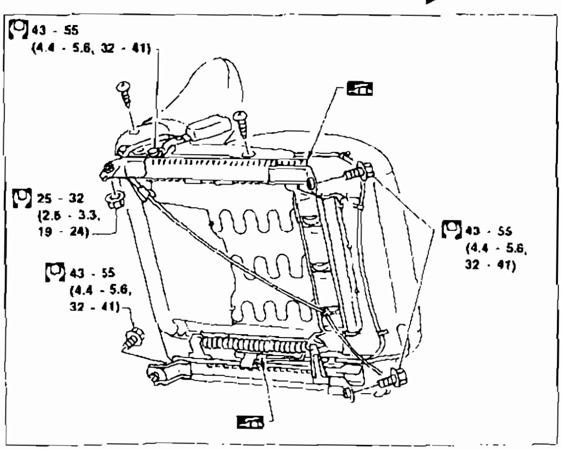
MBF475B

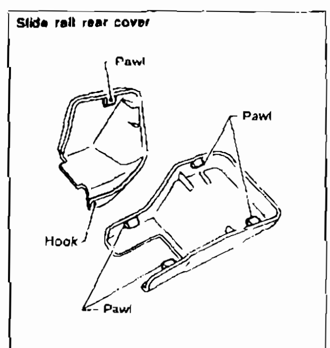
- When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage.

Front Seat

SEC. 870



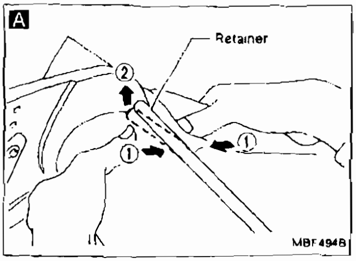




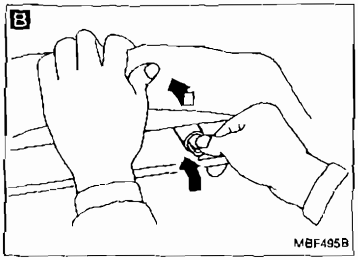
N·m (kg-m, ft-lb)

MDF460BA

Front Seat (Cont'd)



Remove retainer from lower side of seatback with fingers

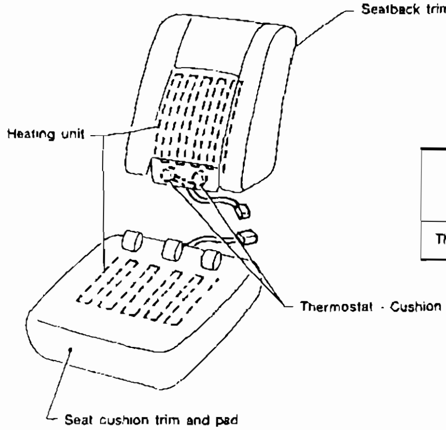


Roll up seatback trim all the way to gain access to headrest holder pawls. Disengage and push headrest holder pawls to unlock holder Lift off headrest holder.

Front Seat (Cont'd)

HEATED SEAT

- When handling seat, be extremely careful not to scratch heating unit
- To replace heating unit, seat trim and pad should be separated.
- Do not use any organic solvent, such as thinner, benzene, alcohol, gasoline, etc. to clean trims.



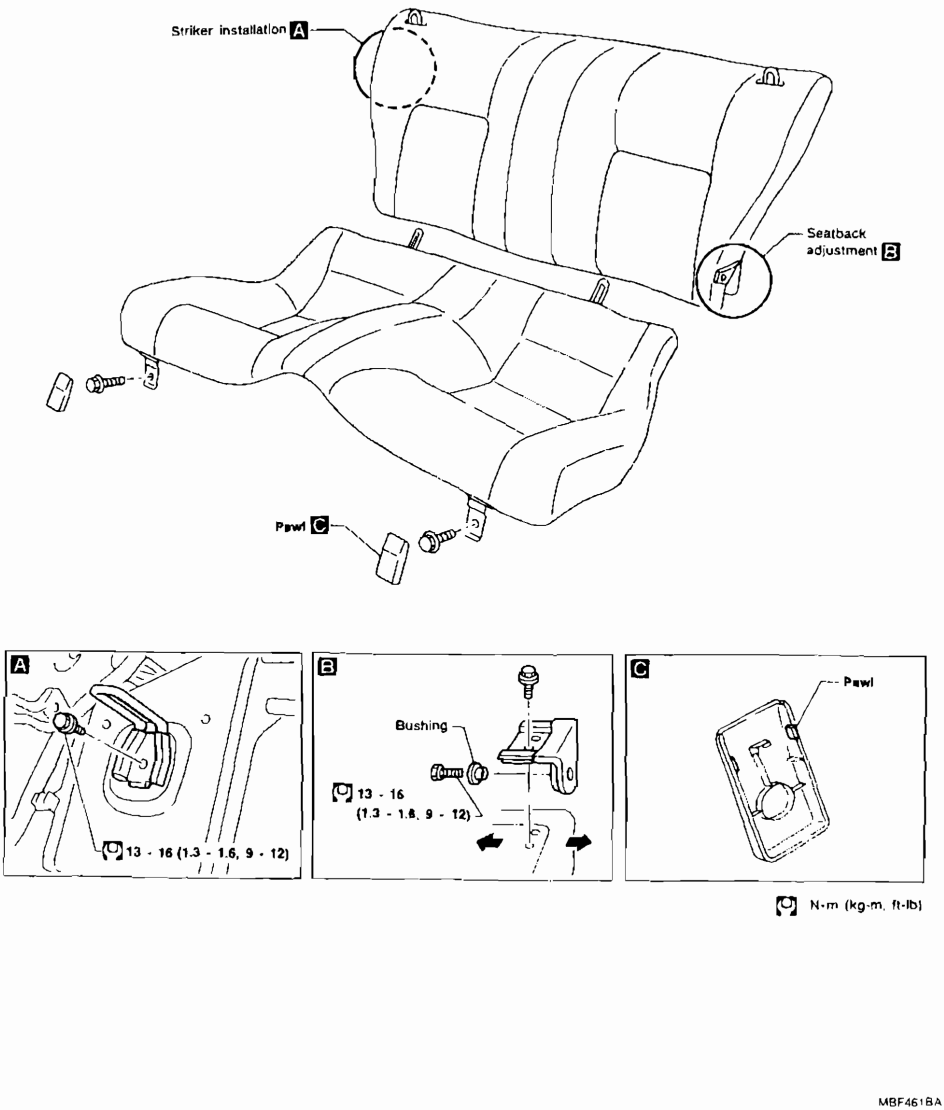
Trim temperature °C (°F)	Increasing to 35 - 45 (95 - 113)	Decreasing to 25 - 35 (77 - 95)
Thermostat operation	Turns OFF	Turns ON

MBF332B

★ **For Wiring Diagram, refer to "HEATED SEAT" in EL section.**

Rear Seat

SEC. 880

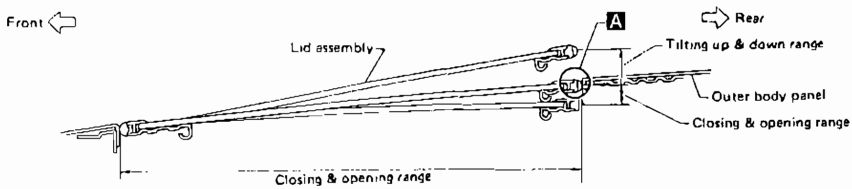


★ For Wiring Diagram, refer to "ELECTRIC SUN ROOF" in EL section.

ADJUSTMENT

Install motor & limit SW assembly and sunroof rail assembly in the following sequence:

1. Arrange equal lengths of link and wire assemblies on both sides of sunroof opening.
2. Connect sunroof connector to sunroof switch and positive (+) power supply.
3. Set lid assembly to fully closed position **A** by operating OPEN switch and TILT switch.
4. Fit outer side of lid assembly to the surface of roof on body outer panel.
5. Remove motor, and keep OPEN switch pressed until motor pinion gear reaches the end of its rotating range
6. Install motor.
7. Check that motor drive gear fits properly in wires.
8. Press TILT-UP switch to check lid assembly for normal tilting.
9. Check sunroof lid assembly for normal operations (tilt-up, tilt-down, open, and close).



SBF920F

GI MA EM LC EC FE CL MT AT PD FA RA BR ST RS BT HA EL IDX

- After any adjustment, check sun roof operation and lid alignment.
- Handle finisher plate and glass lid with care so not to cause damage.
- It is desirable for easy installation to mark each point before removal.

CAUTION:

Always work with a helper.

Link and wire assembly	Sun roof frame assembly	Shade assembly	Lid assembly	Motor assembly

Tilt glass lid up

① Side trim
- Remove side trim clips

② Sun roof lid mount nuts

③ Lid assembly

④ Rear drain mount screws

⑤ Rear drain assembly

Operate sun roof switch to tilt glass lid down

⑥ Shade assembly **A**

Sun roof switch/interior accessories/headlining
- Refer to "ROOF TRIM" (BT-20).

⑦ Motor switch bracket

⑧ Motor assembly

⑨ Window deflector holder **B1-B3**

⑩ Window deflector mount screw

⑪ Window deflector assembly

⑫ Drain hoses

⑬ Sun roof unit bracket

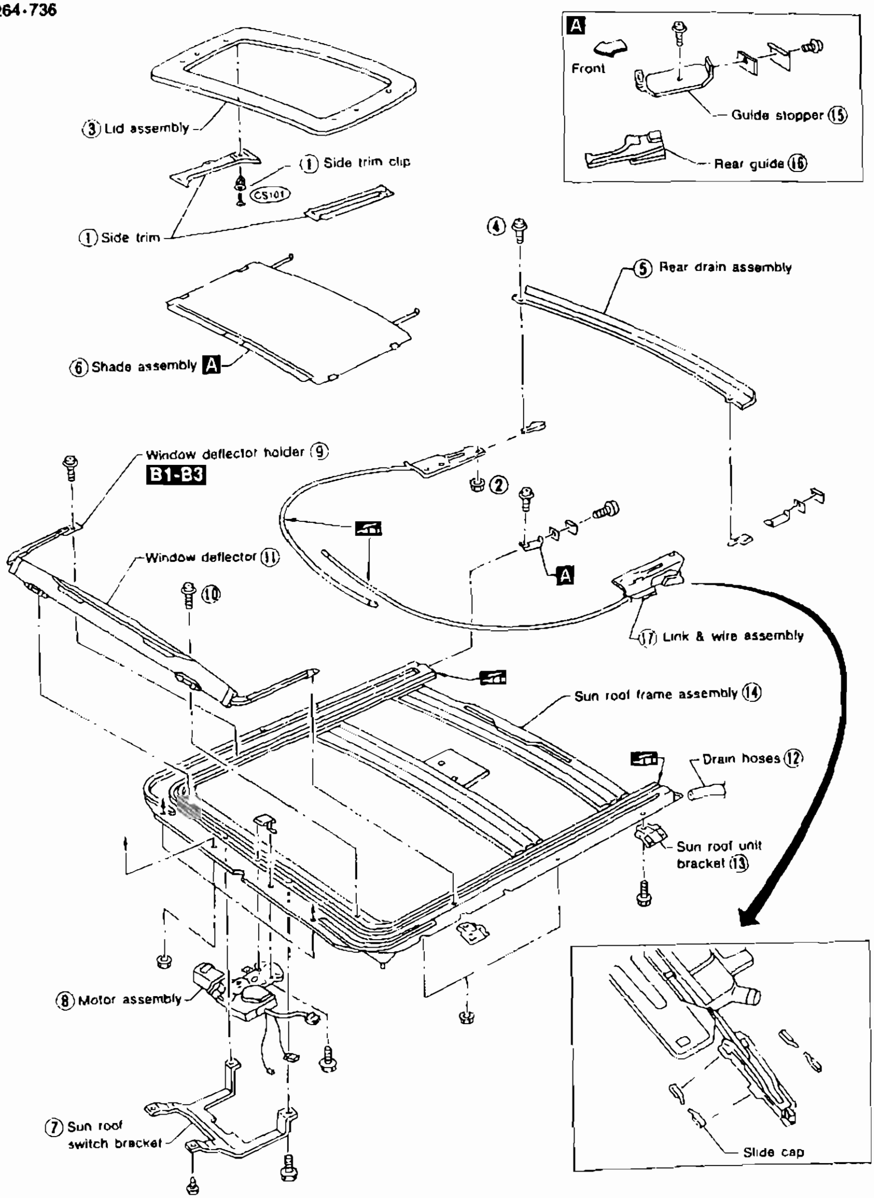
⑭ Sun roof frame assembly

⑮ Guide stopper

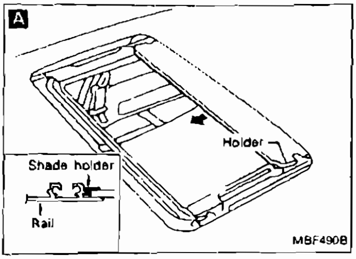
⑯ Rear guide

⑰ Link and wire assembly

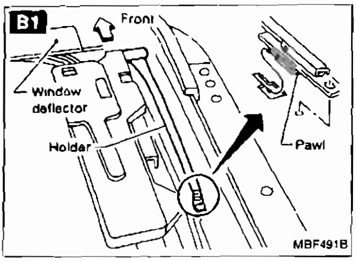
SEC. 264·736



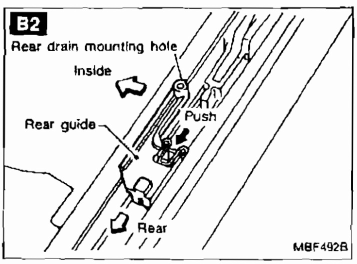
SBT007



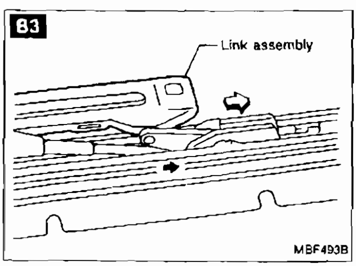
A Using flat-bladed screwdriver, pry shade assembly holder off rail. Then pull shade assembly forward to remove it from rail.



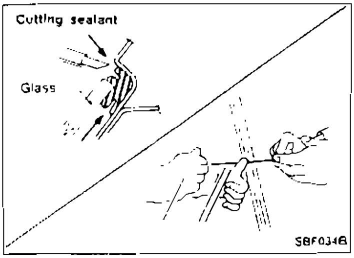
B1 Disengage pawls from rail, then remove window deflector holder.



B2 Using flat-bladed screwdriver, pry stopper spring off rail groove. Then slide rear guide backward to remove it from rail.



B3 Remove wire and link assembly from rail while pushing link back with flat-bladed screwdriver.



REMOVAL

After removing moldings, remove glass.

CAUTION:

Be careful not to scratch glass when removing.

INSTALLATION

- **Use genuine Nissan Sealant kit or equivalent. Follow instructions furnished with it.**
- **After installation, the vehicle should remain stationary until the sealant hardens.**

WARNING:

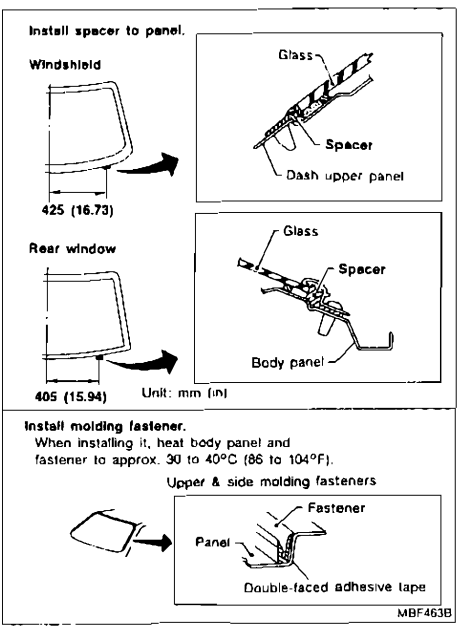
Keep heat and open flames away as primers are flammable.

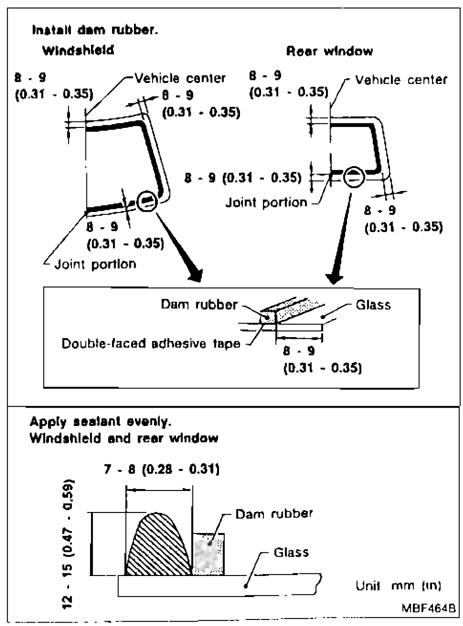
CAUTION:

Advise users not to drive the vehicle on rough roads until sealant has properly vulcanized.

- **Do not use sealant which is past its usable term.**
- **Do not leave cartridge unattended with its cap open.**
- **Keep primers and sealant in a cool, dry place. Ideally, they should be stored in a refrigerator.**
- **Molding must be installed securely so that it is in position and leaves no gap.**

Windshield and Rear Window





REPAIRING WATER LEAKS FOR WINDSHIELD AND WINDOWS

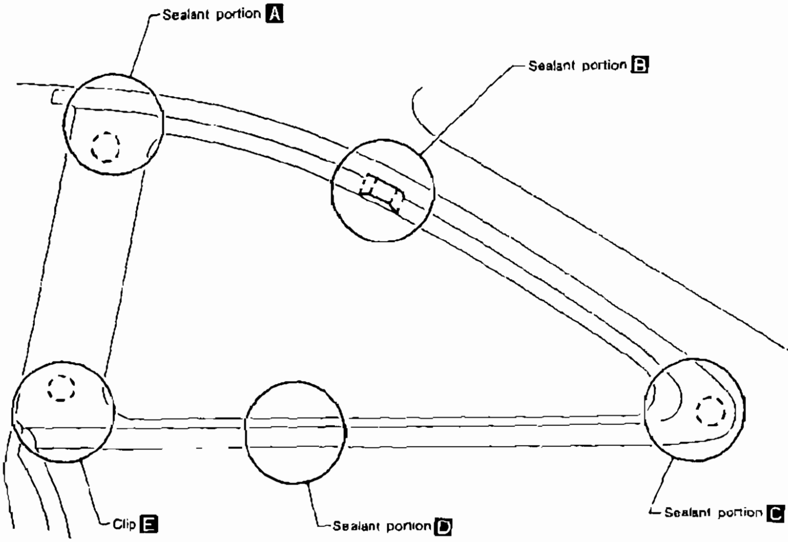
Leaks can be repaired without removing and reinstalling glass.

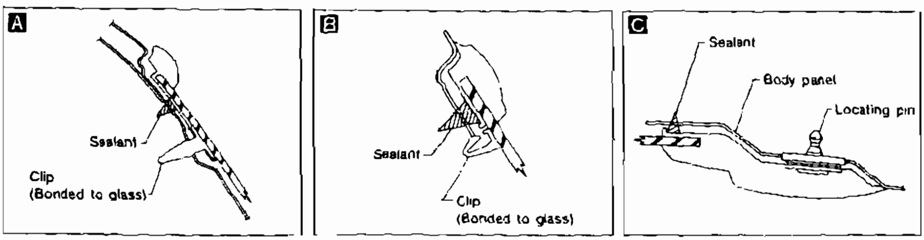
If water is leaking between caulking material and body or glass, determine the extent of leaking. This can be determined by applying water while pushing glass outward.

To stop the leak, apply primer and then sealant to the leak point.

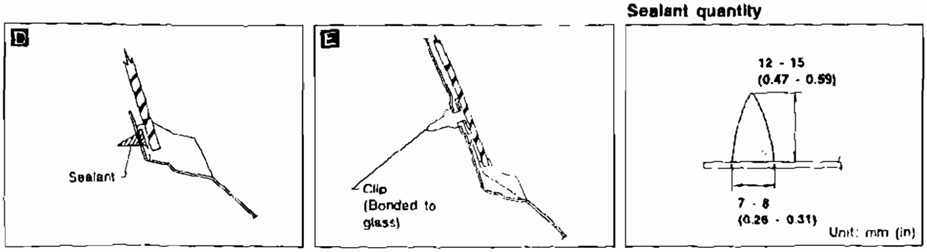
Side Window

SEC. 830





Sealant quantity



MBF465BA

★For Wiring Diagram, refer to "POWER DOOR MIRROR" in EL section.

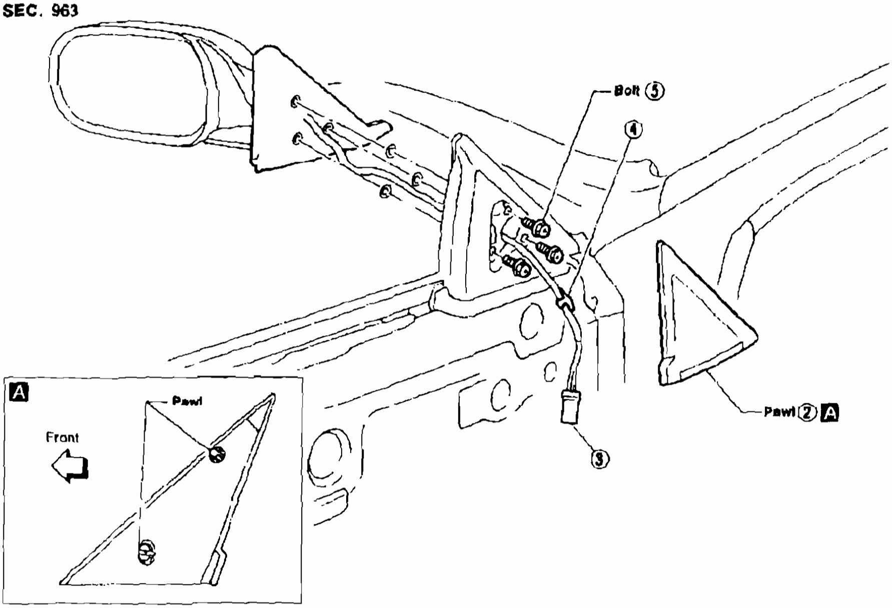
CAUTION:

Be careful not to scratch door rearview mirror body.

REMOVAL — Door mirror

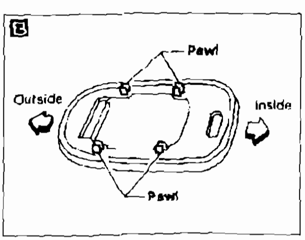
① Remove door trim. Refer to "DOOR TRIM" in "INTERIOR TRIM" for details (BT-19)
② Remove inner cover front corner of door **A**.
③ Disconnect door mirror harness connector.
④ Remove harness clips.
⑤ Remove three bolts securing door mirror, then remove door mirror.

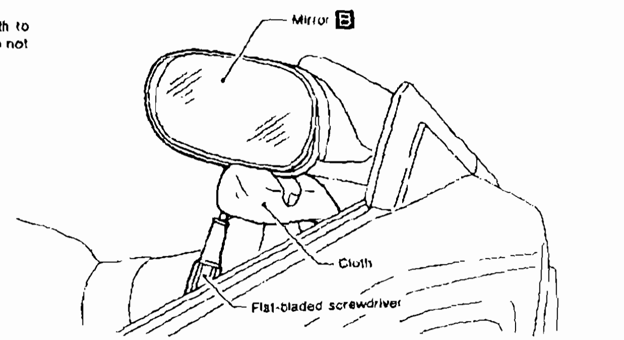
SEC. 963



Removal

- Wrap flat-bladed of screwdriver with a cloth to prevent scratching rear of door mirror. Do not insert screwdriver too far



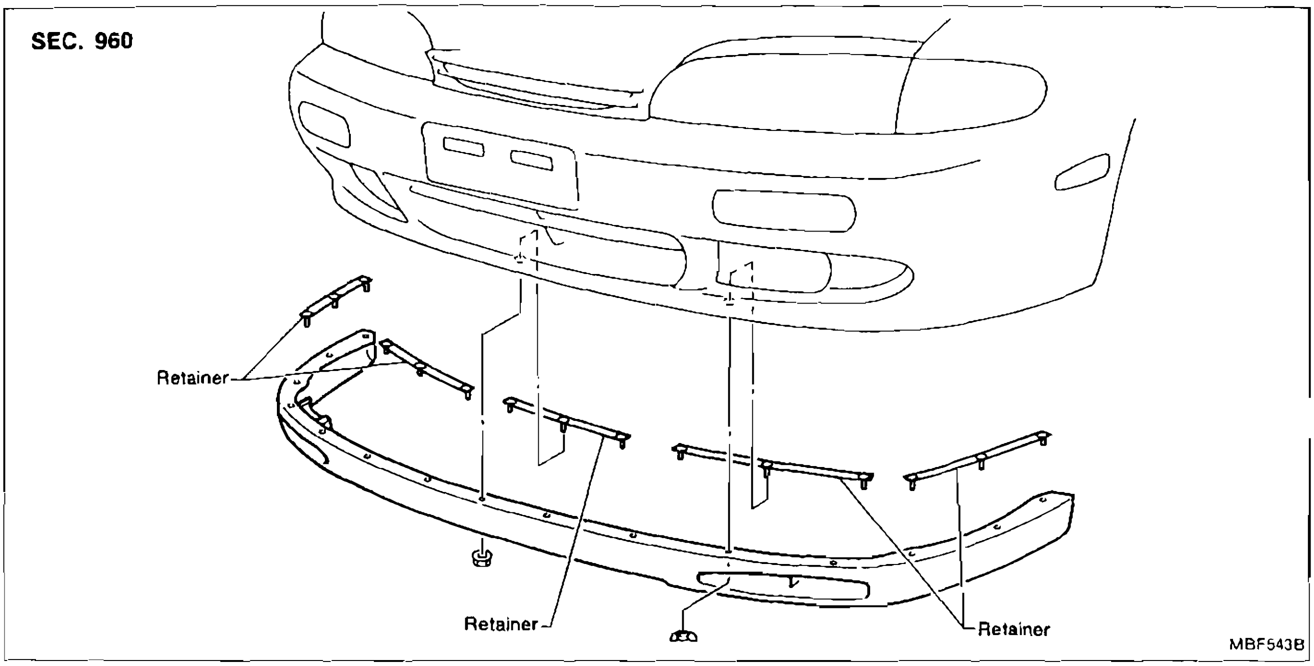


MBF465BA

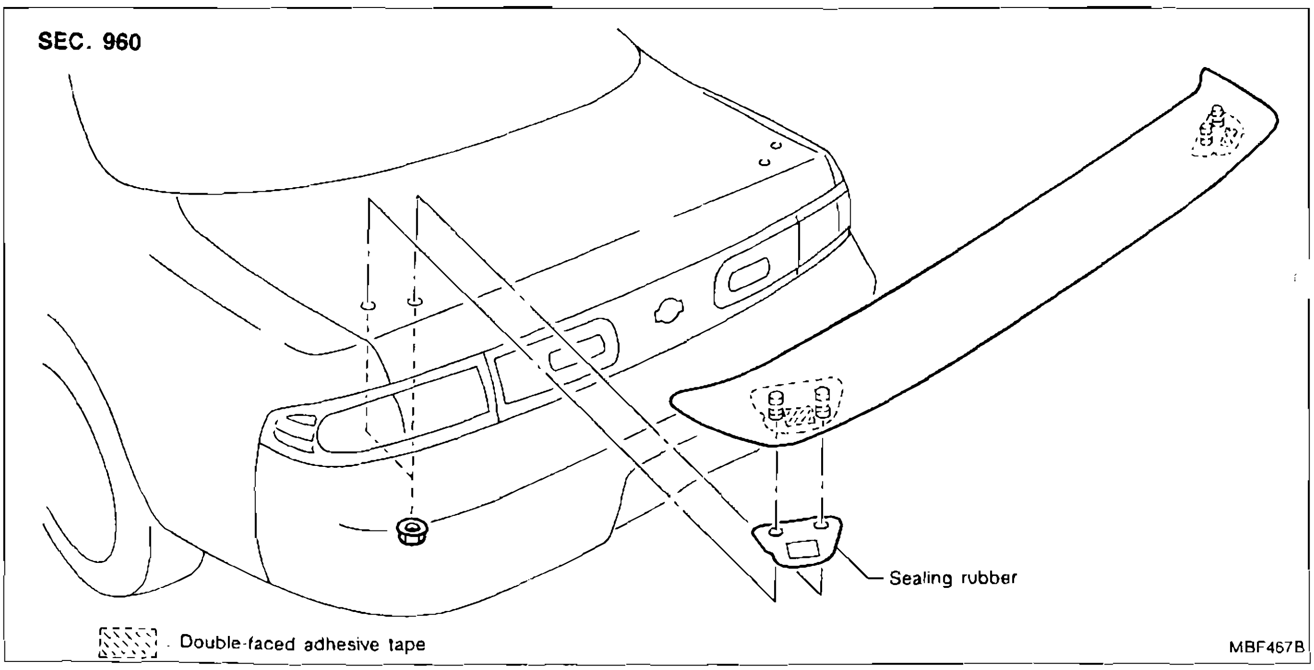
GI MA EM LC EC FE CL MT AT PD FA RA BR ST RS BT HA EL IDX

- When installing, make sure that there are not gaps or waves at ends of air spoiler.
- Before installing spoiler, clean and remove oil from surface where spoiler will be mounted.

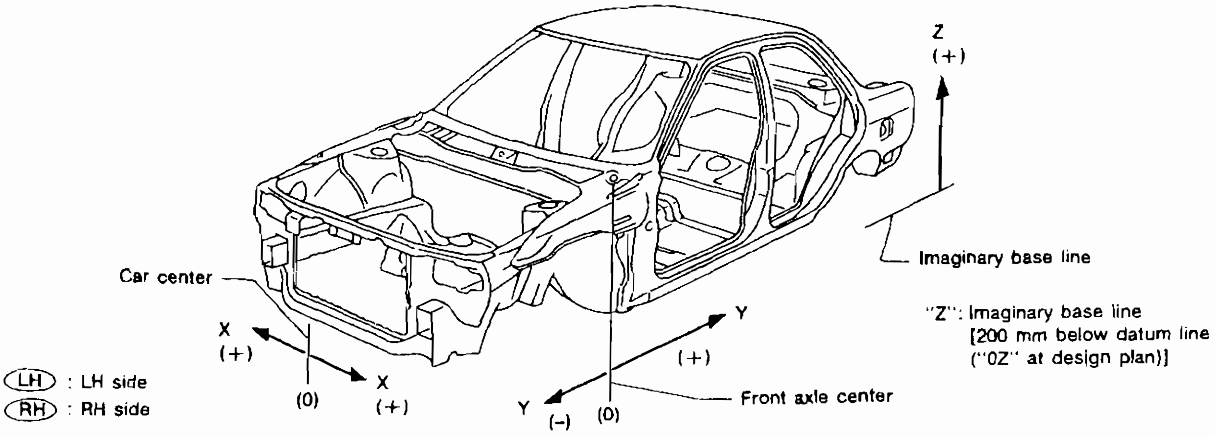
Front Air Spoiler



Rear Air Spoiler



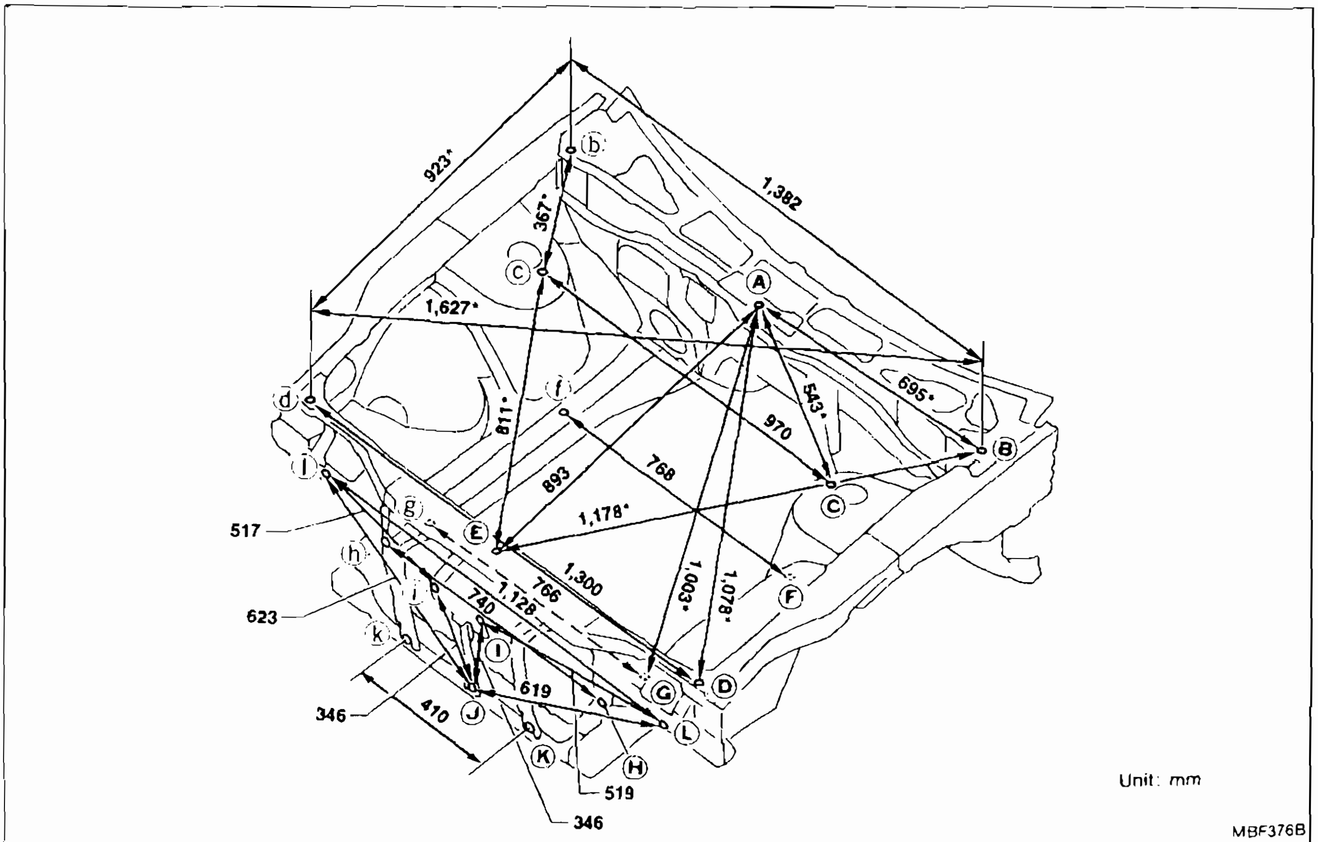
- All dimensions indicated in figures are actual ones.
- When using a tracking gauge, adjust both pointers to equal length. Check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".



SBF874G

Engine Compartment

MEASUREMENT

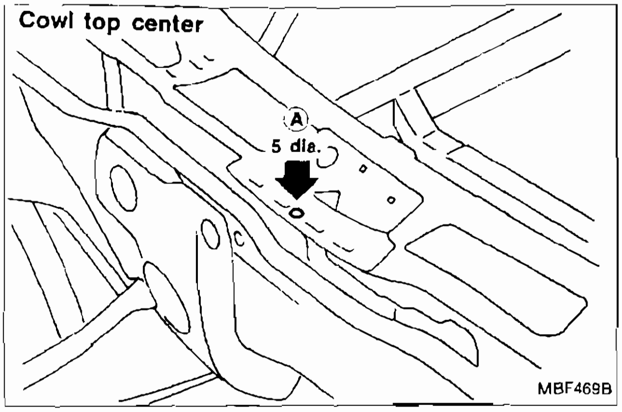


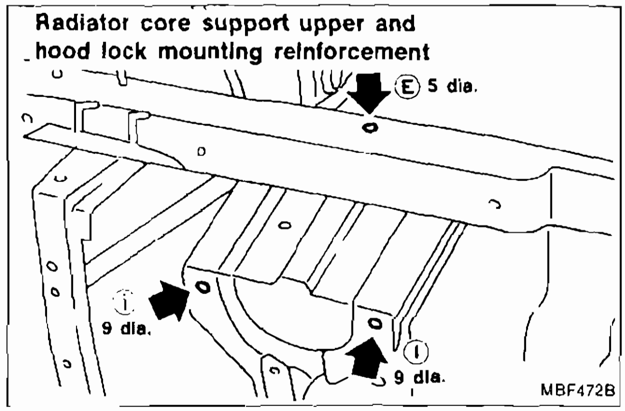
MBF376B

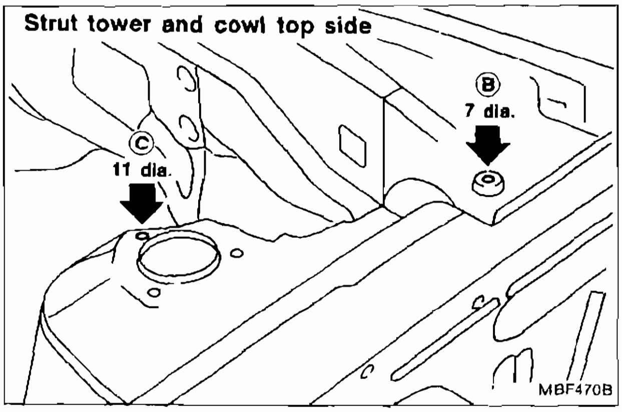
Engine Compartment (Cont'd)

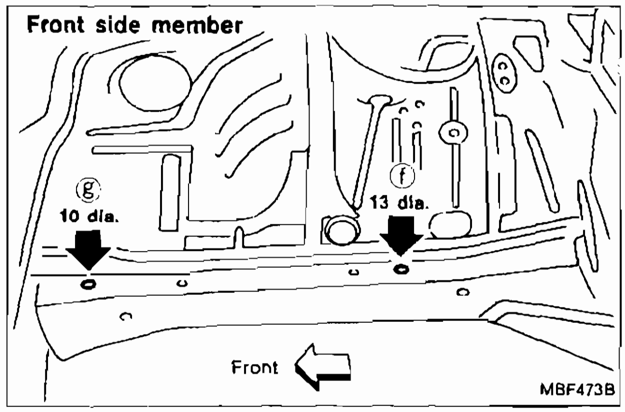
MEASUREMENT POINTS

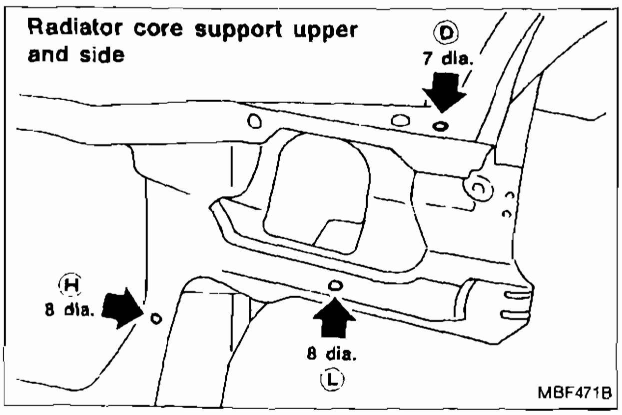
Unit: mm

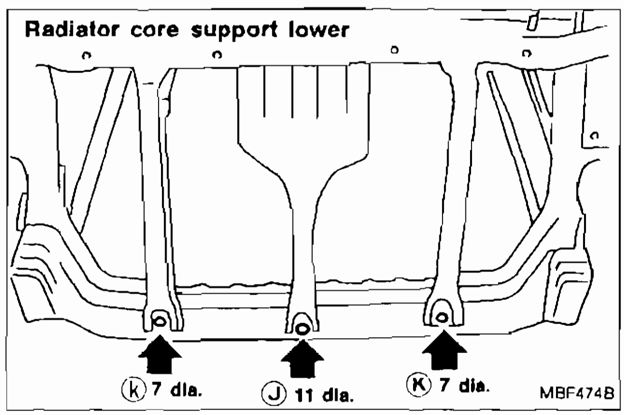






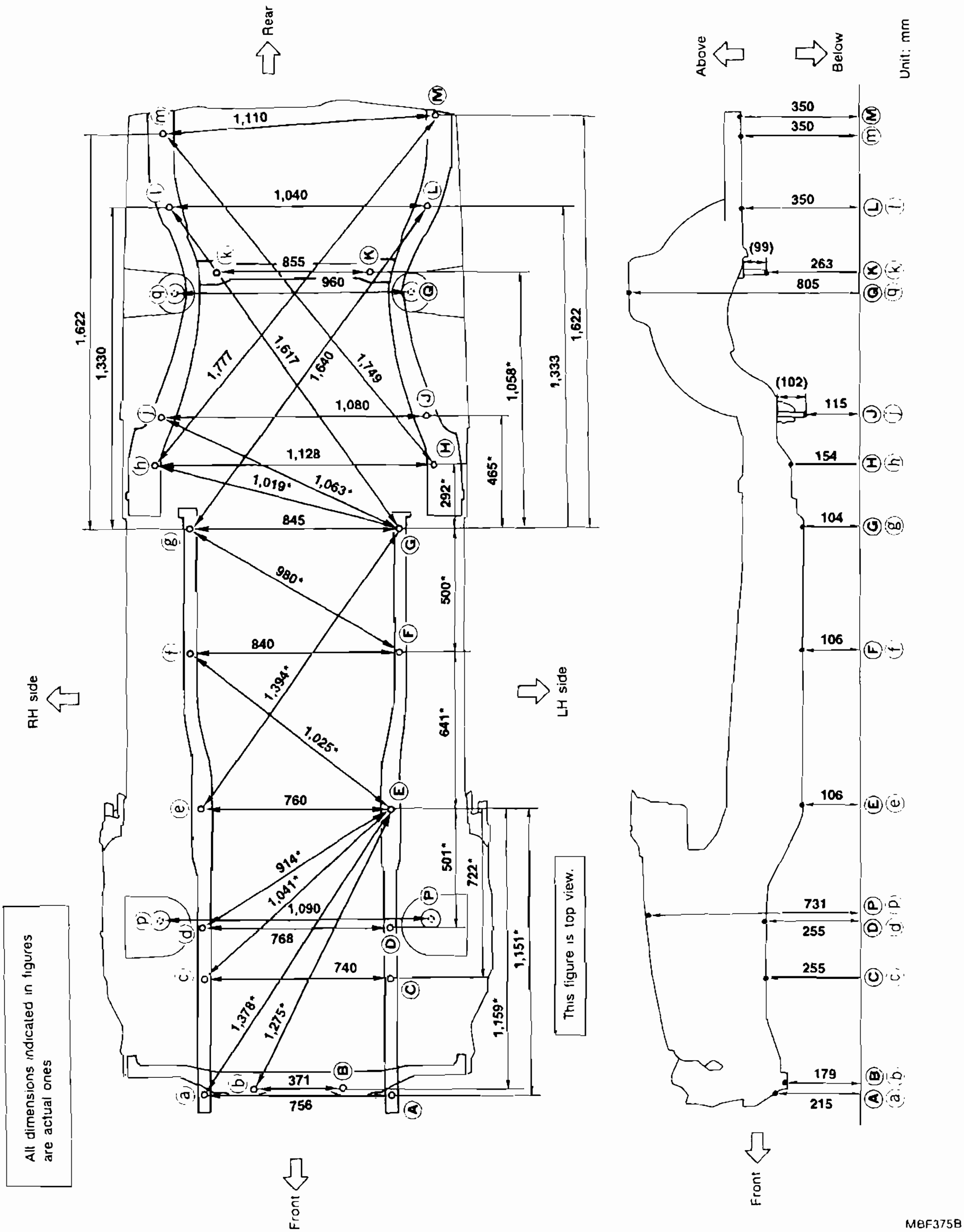






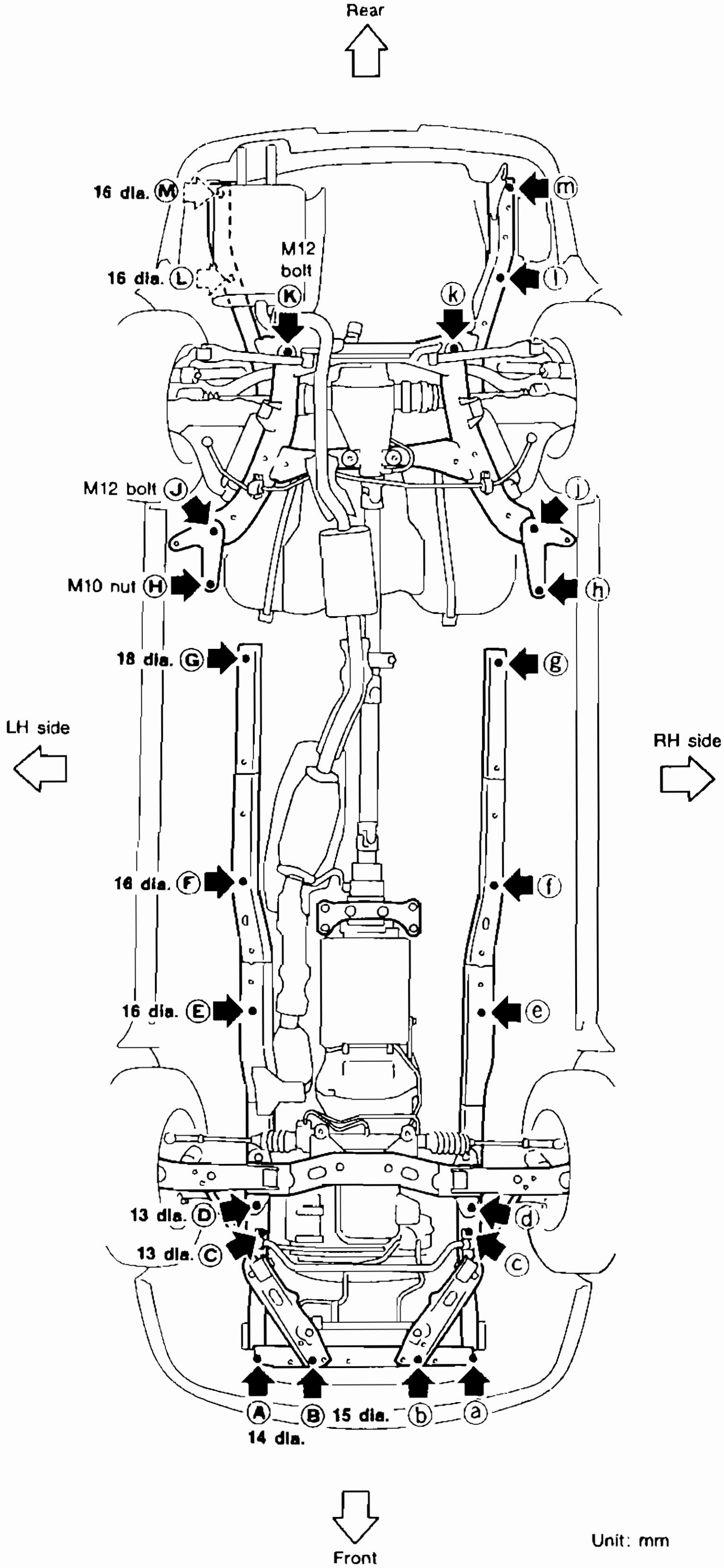
Underbody

MEASUREMENT



Underbody (Cont'd)

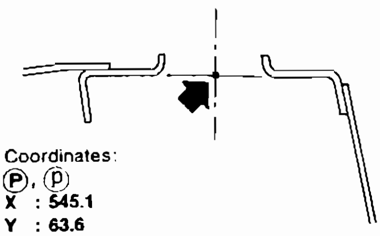
MEASUREMENT POINTS



Unit: mm

Front coordinates:				Rear coordinates:			
Point	X	Y	Z	Point	X	Y	Z
(A), (a)	378	−635.5	214.5	(G), (g)	422.5	1,650	103.9
(B), (b)	185.3	−630	179	(H), (h)	564	1,900	154
(C), (c)	370	−196.5	254.9	(J), (j)	540	2,100	115.2
(D), (d)	384.2	32	254.9	(K), (k)	308	2,690	262.8
(E), (e)	380	510	106.2	(L)	540	2,955	350
(F), (f)	420	1,150	106.2	(l)	500	2,955	350
				(M)	580	3,245	350
				(m)	530	3,250	350

Front and rear strut tower centers



Coordinates:

(P), (p)
X : 545.1
Y : 63.6
Z : 730.9

(Q), (q)
X : 479.8
Y : 2,608
Z : 804.6

Front: (P), (p) 82.2 dia.
Rear: (Q), (q) 66 dia.

MBF477BA

HEATER & AIR CONDITIONER

SECTION HA

CONTENTS